

SONY

KP-5010/7210PS

MODEL

SERVICE MANUAL

SPECIFICATIONS

Projected Picture Size: 127 cm (50 inches) diagonally (KP-5010PS)
183 cm (72 inches) diagonally (KP-7210PS)

Audience Area: Viewing distance:
3 m (10 ft) minimum to 15 m (49 ft)
maximum for KP-5010PS
5 m (16 ft) minimum to 25 m (82 ft)
maximum for KP-7210PS
Optimum seating arrangement:
approx. 35° from center

Projected Picture Brightness: More than 60 fL (white peak) (KP-5010PS)
More than 30 fL (white peak) (KP-7210PS)

Projected Contrast Ratio: More than 30 : 1 (in darkened room)

Screen: Aluminum foil screen

Picture Tube: 20.3 cm, 8" high bright monochrome tube

Semiconductors: 191 transistors, 5 ICs, 118 diodes and
1 thyristor

Anode Voltage: 27 kV at zero beam current

Intermediate

Output Power: 5 W (at 10 % harmonic distortion)

Speaker: 20 cm (8 inches), 8 Ω

Automatic Controls: ABL (automatic brightness limiter)
ACC (automatic color control)
ACK (automatic color killer)
AFC (automatic frequency control)
ANC (automatic noise canceller)
AVR (automatic voltage regulator)

Input:

Signal	Connector	Signal level	Remarks
VIDEO IN	LINE BNC coaxial connector	1Vp-p	PAL, SECAM, NTSC, 4.43MHz, 75Ω, sync negative
AUDIO IN	LINE Minijack	-5dB (0.44V)	high impedance
	8-pin connector	-20dB (0.77V)	

Power Requirements: 220 V ac, 50/60 Hz

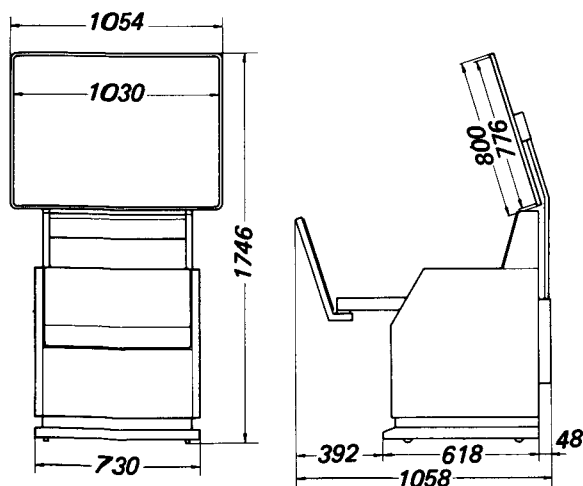
Power Consumption: 258 W (max.)

Dimensions: 50" screen: approx.
1054 (w) x 1746 (h) x 1058 (d) mm
41 ½ (w) x 68 ¾ (h) x 28 ¾ (d) inches
72" screen: approx.
1510 (w) x 2299.4 (h) x 1614.2 (d) mm
59 ½ (w) x 90 ½ (h) x 63 ½ (d) inches

Weight: Approx. 96 kg, 211 lb 10 oz (KP-5010PS)
Approx. 101 kg, 222 lb 11oz (KP-7210PS)
including screen

Accessories Supplied: 50-inch (KP-5010PS) or 72-inch (KP-7210PS)
screen (diagonal measurement)
Screen support assembly
AC power cord
Polishing cloth

KP-5010PS



KP-7210PS

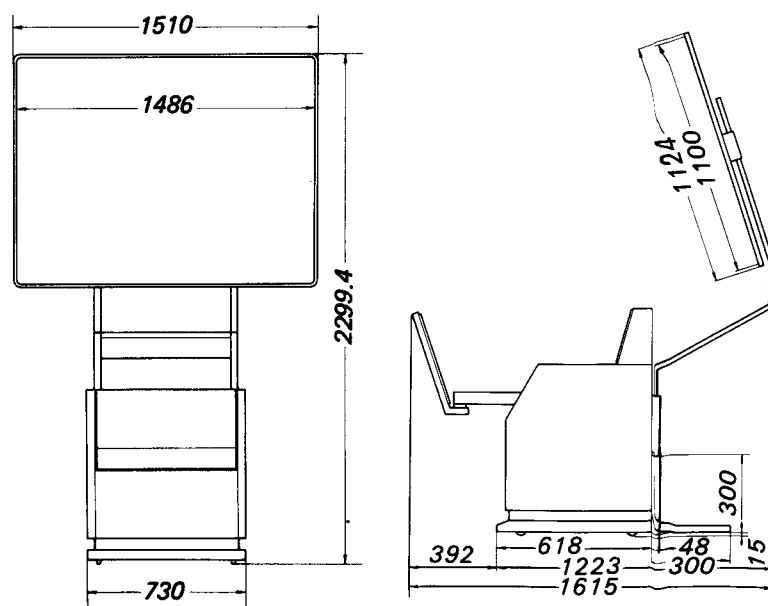
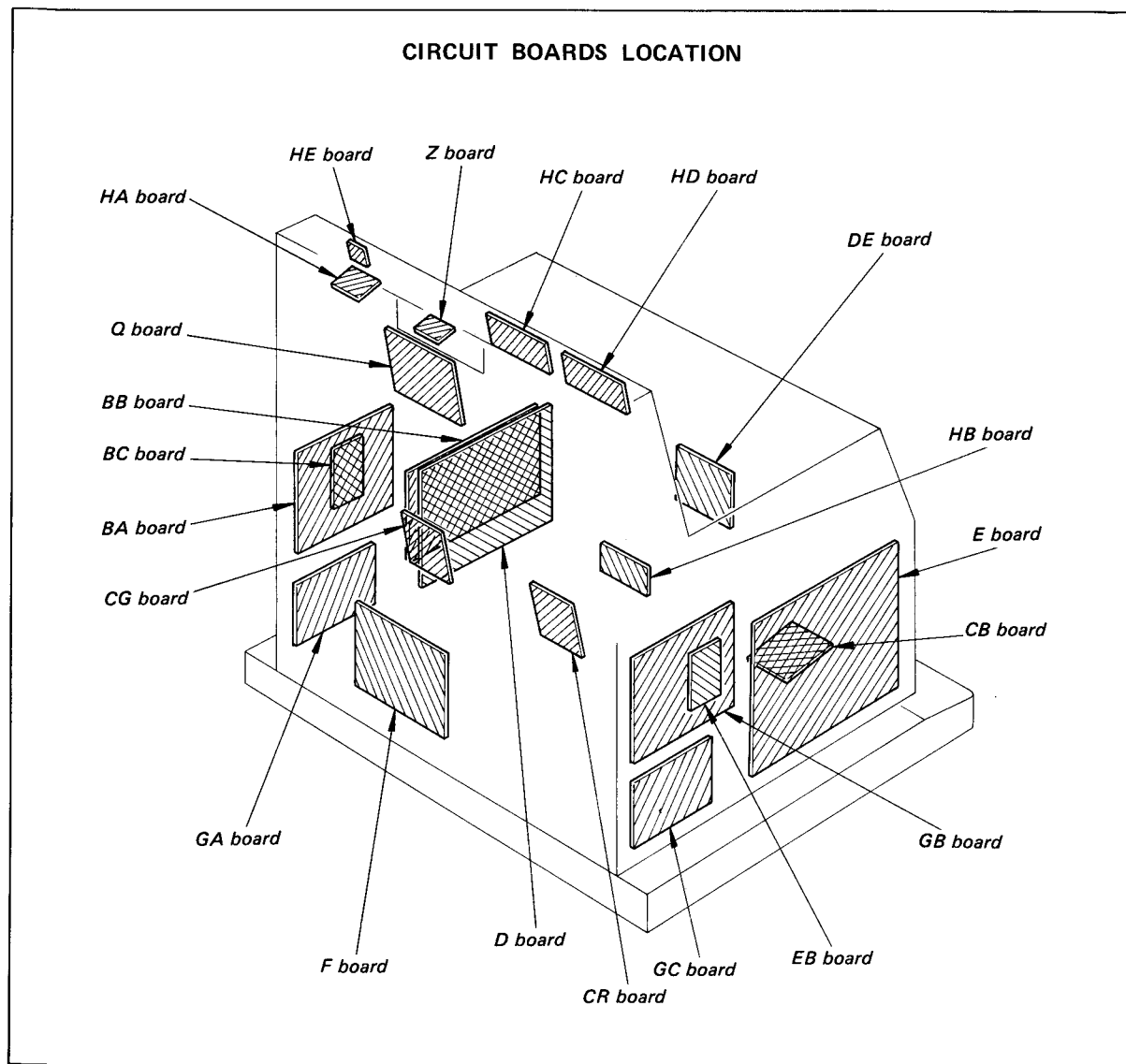


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SECTION 1 OUTLINE

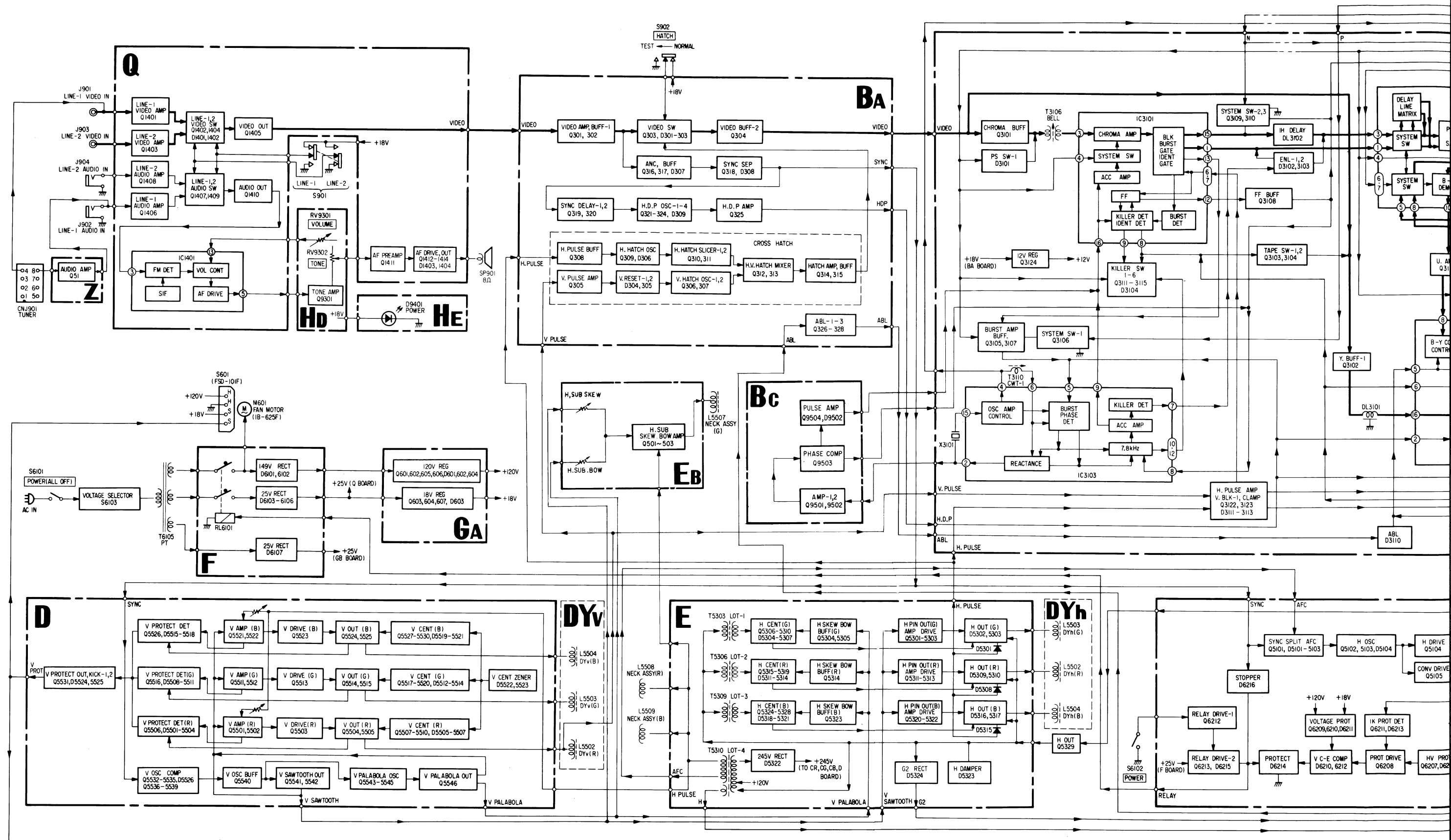
SCC-208A-B/SCC-209A-B

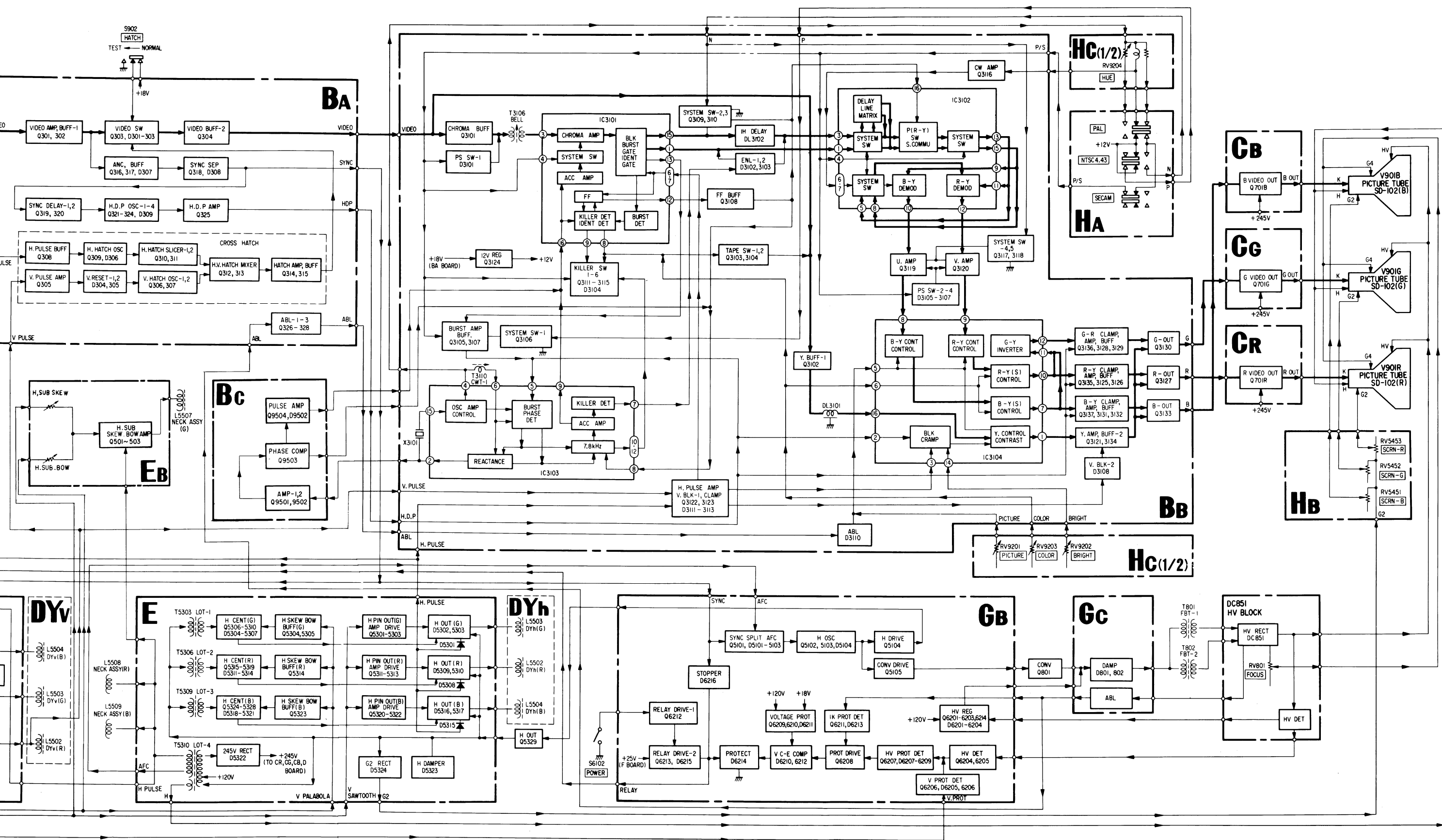
KP-5010PS/7210PS

KP-5010PS/7210PS

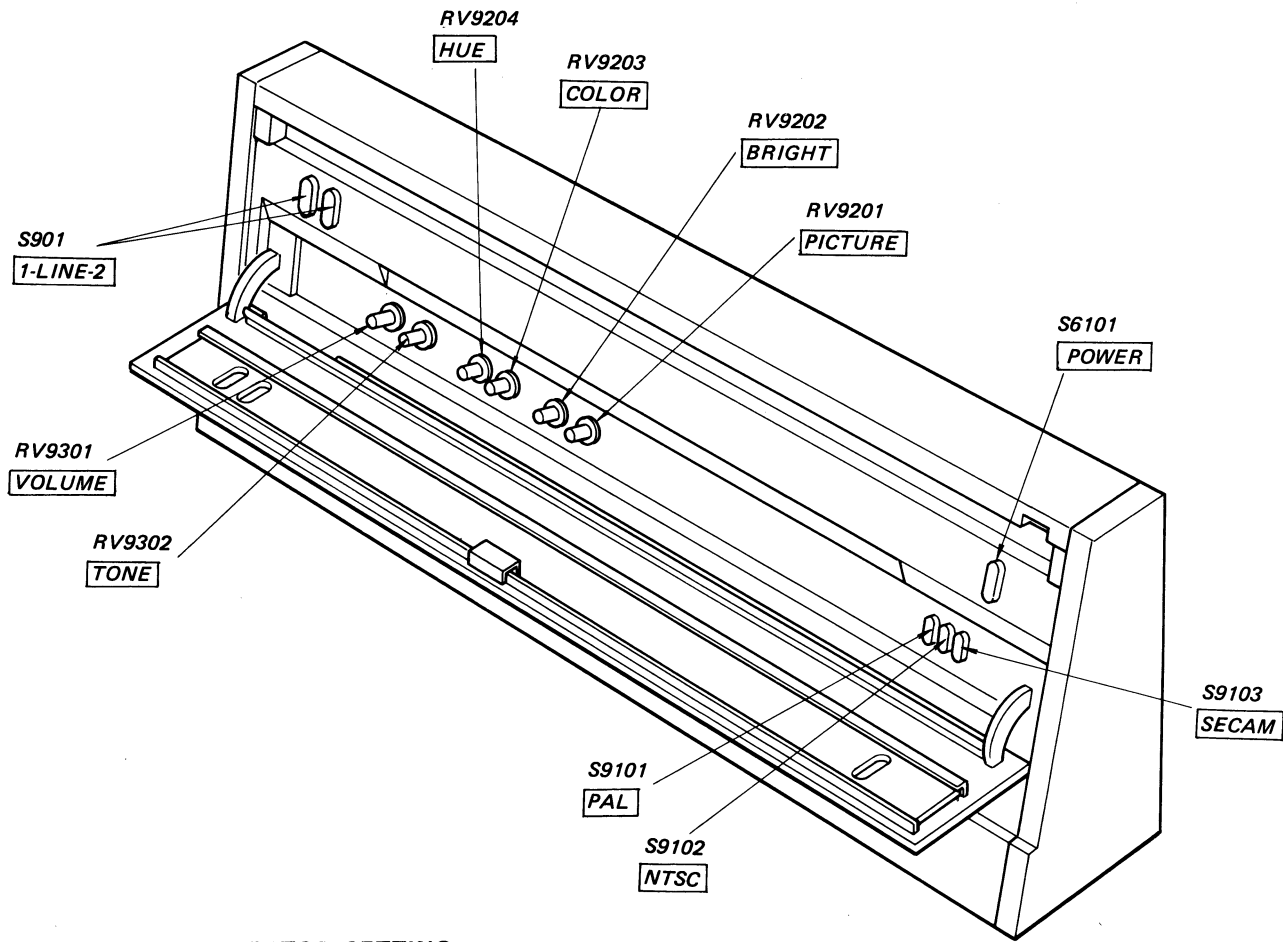
SCC-208A-B/SCC-209A-B

1-1. BLOCK DIAGRAM



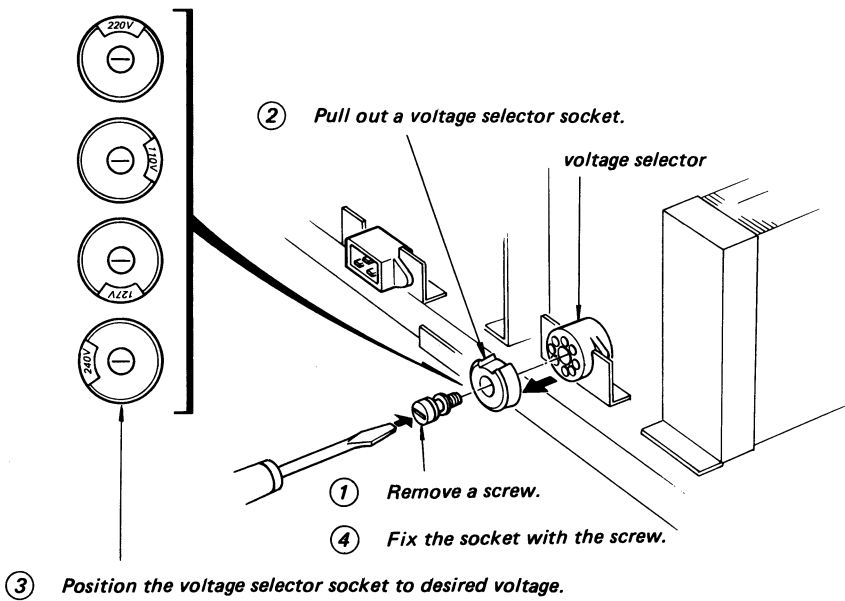


1-2. CONTROL PANEL VIEW

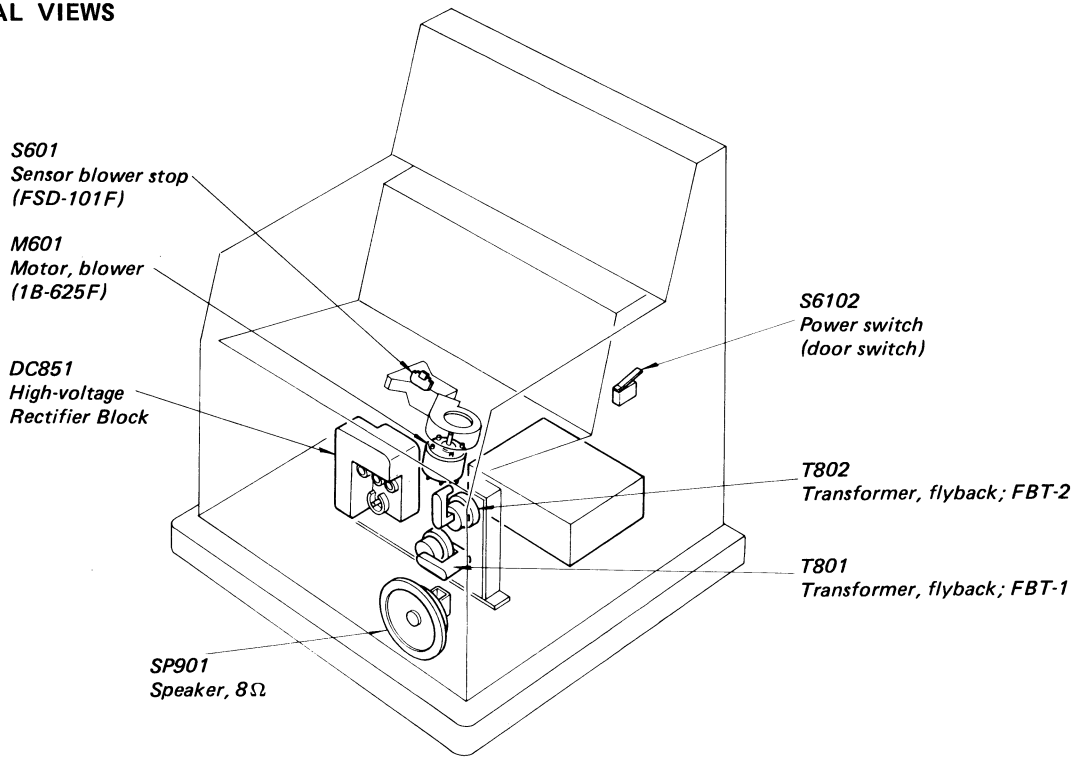


VOLTAGE SELECTOR SETTING

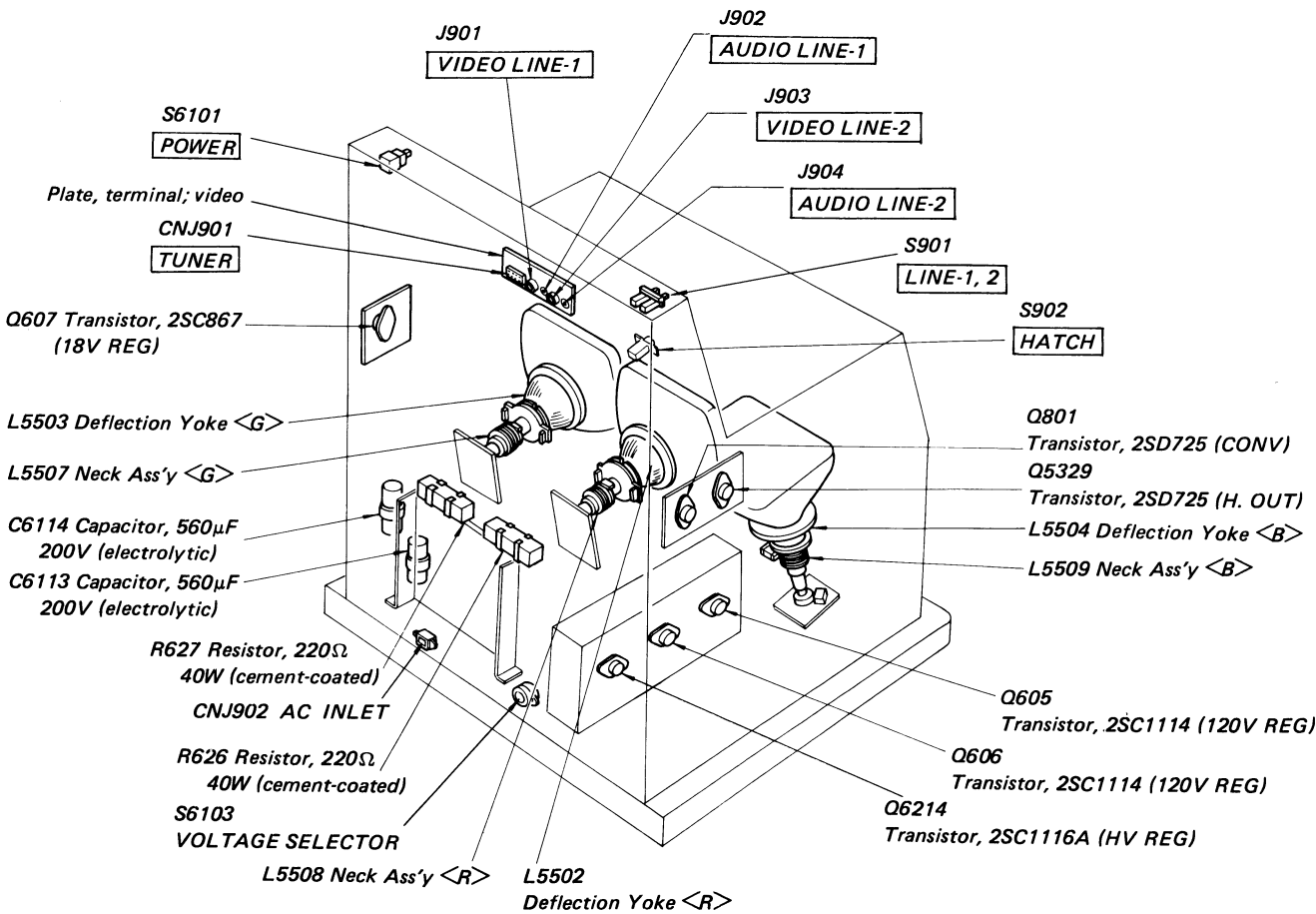
Set the voltage selector as shown below.



1-3. INTERNAL VIEWS
(1)

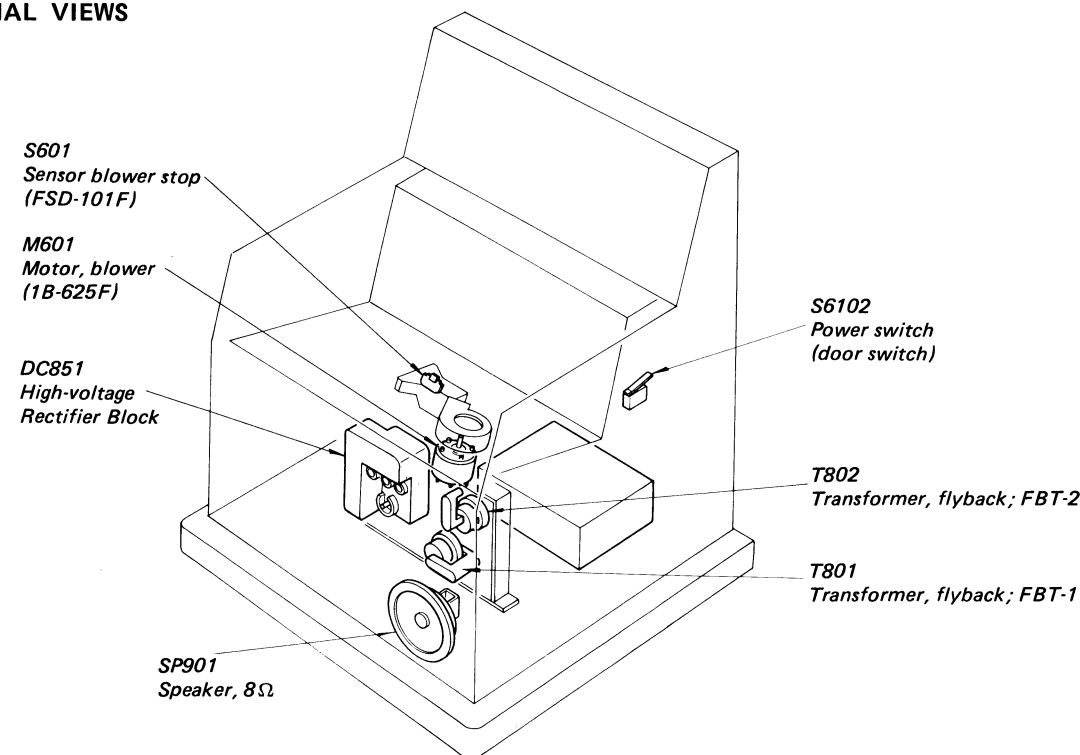


(2)

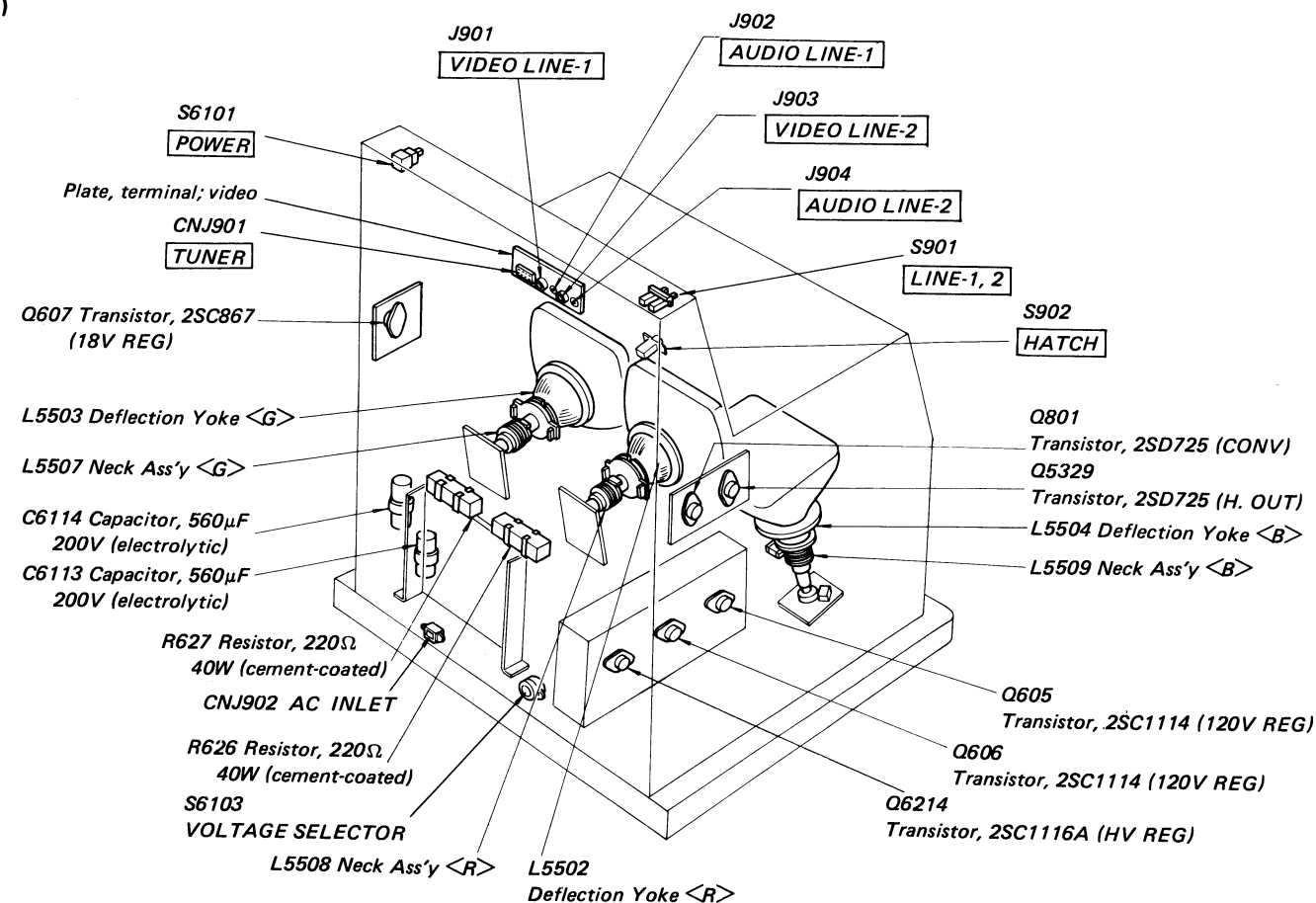


SECTION 2 DISASSEMBLY AND REPLACEMENT

1-3. INTERNAL VIEWS (1)

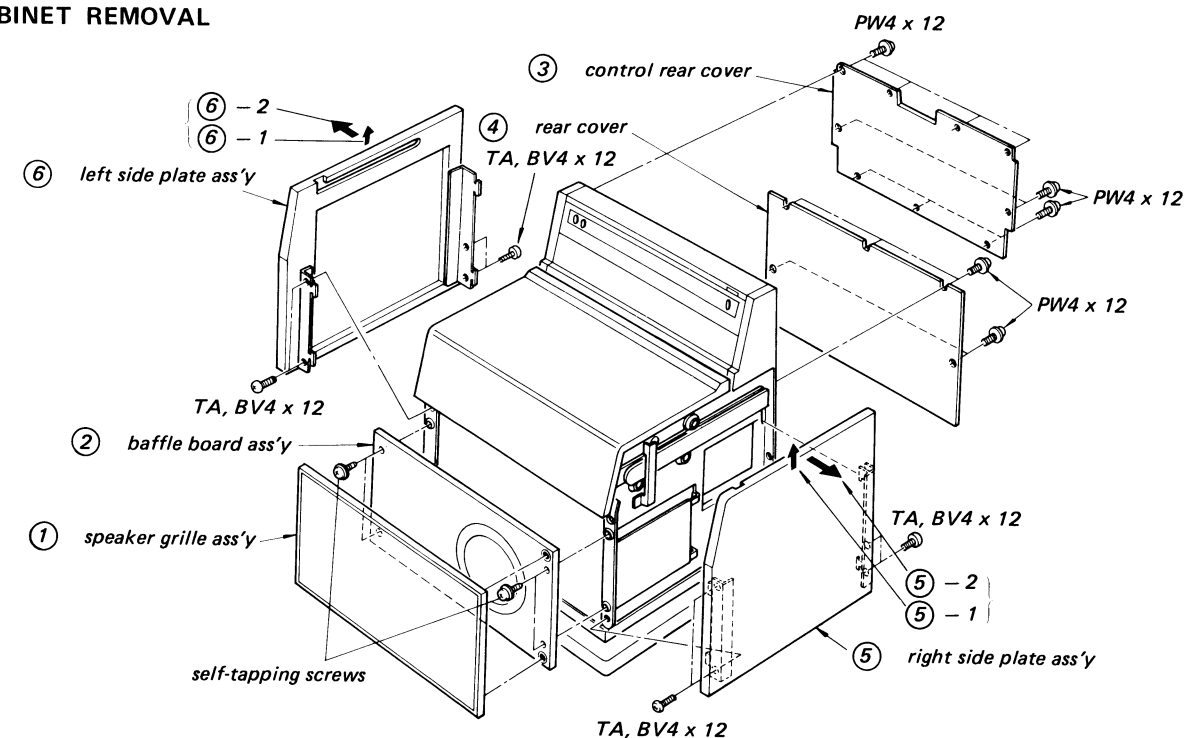


(2)



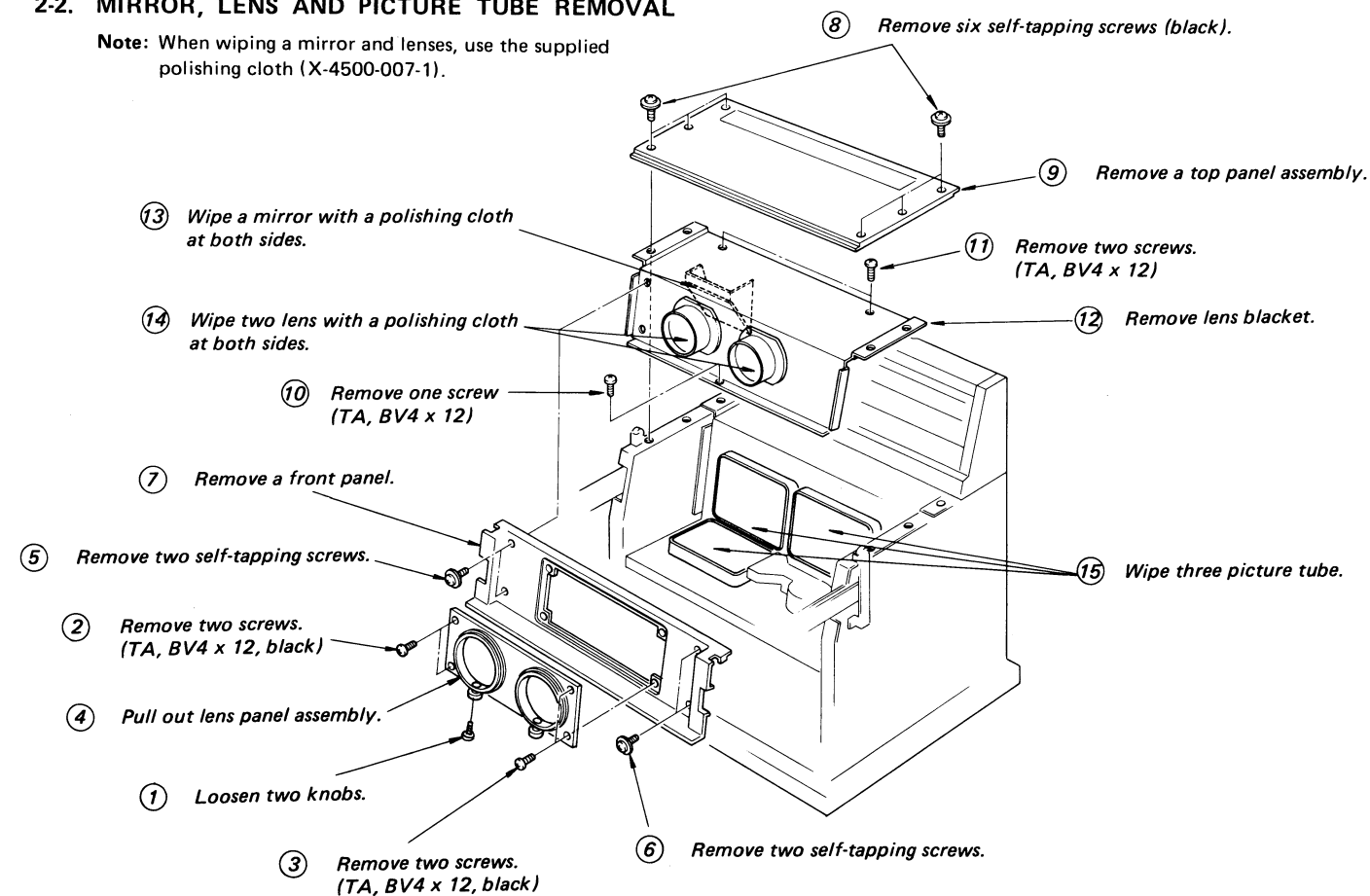
- Note: • Follow the disassembly procedure in the numerical order given.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head

2-1. CABINET REMOVAL

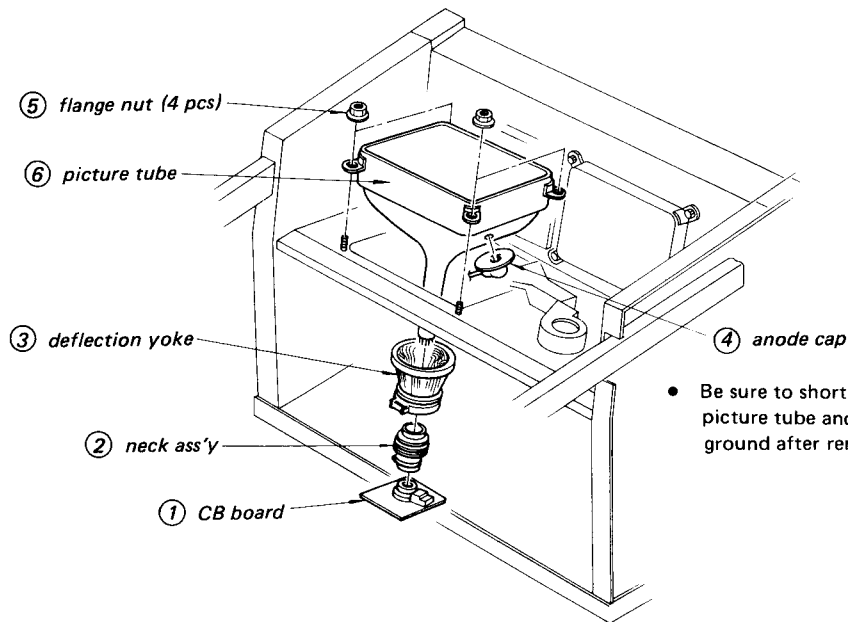


2-2. MIRROR, LENS AND PICTURE TUBE REMOVAL

- Note: When wiping a mirror and lenses, use the supplied polishing cloth (X-4500-007-1).

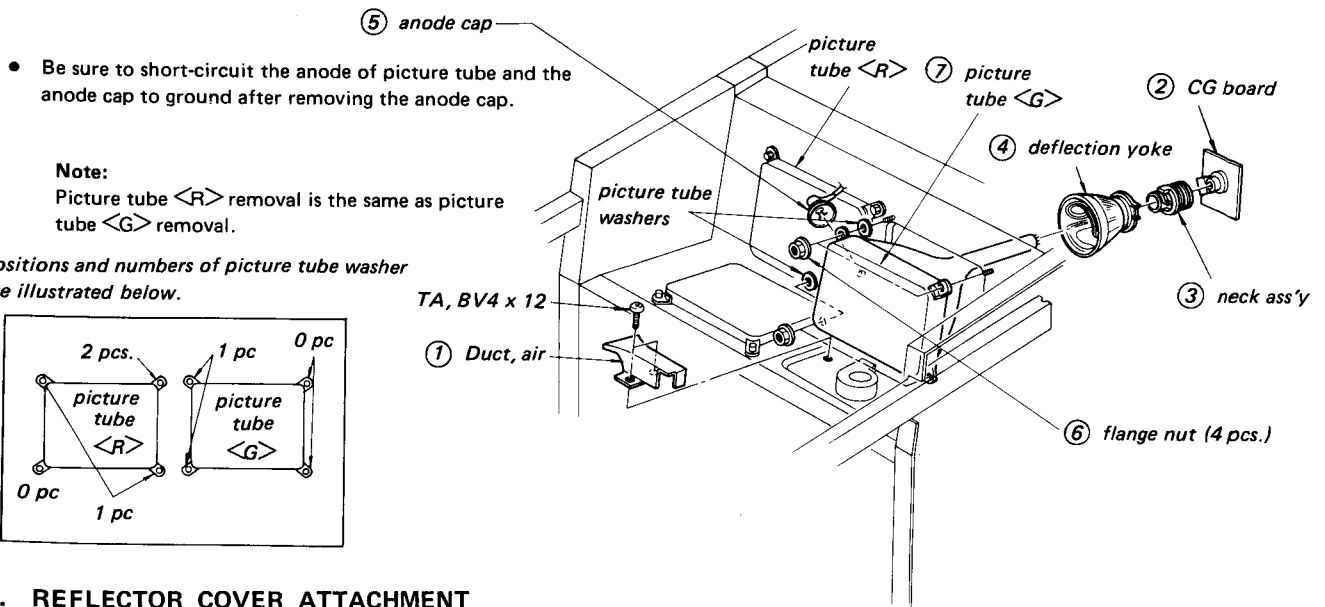


2-3. PICTURE TUBE REMOVAL

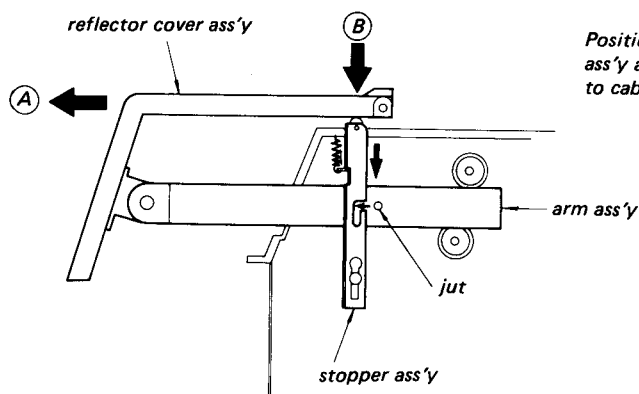


- Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

2-4. PICTURE TUBE <R-G> REMOVAL



2-5. REFLECTOR COVER ATTACHMENT



Position the jut of arm ass'y in the cut-out of the stopper ass'y as shown, and attach the side plate ass'y (right, left) to cabinet.

(With reflector cover ass'y pressed in the direction shown by the arrow B, pull it in the direction shown by the arrow A, and the jut of arm ass'y can be installed in the cut-off.

SECTION 3 SETUP ADJUSTMENTS

3-1. REGISTRATION ADJUSTMENTS

- Before starting the adjustment, proceed the following procedures.
 - Degauss the whole chassis.
 - Set the unit toward the north as shown in Fig. 3-1.

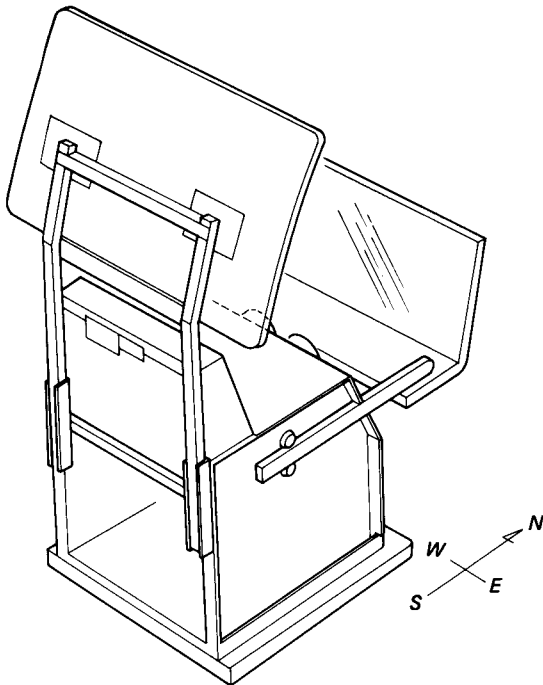


Fig. 3-1

- Set the three neck assemblies and the deflection yokes as shown in Fig. 3-2.

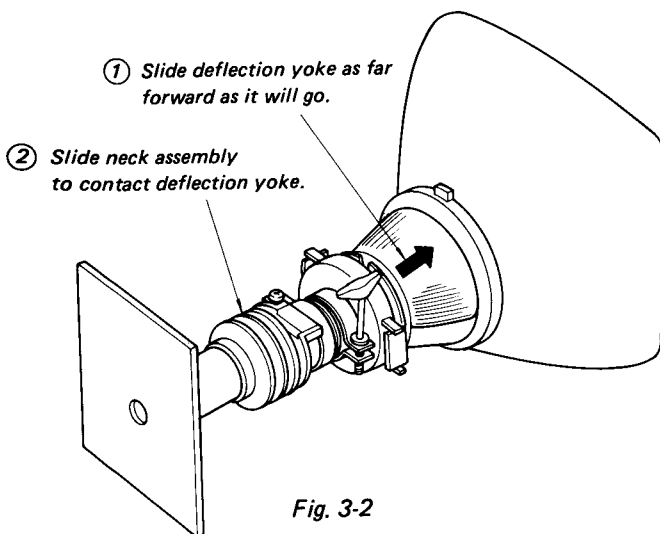


Fig. 3-2

- Controls and switches should be set as follows:

HATCH switch	TEST
BRIGHT control	fully clockwise (maximum)
PICTURE control	fully clockwise (maximum)
H SUB BOW-G (RV501)	} mechanical center	
H SUB SKEW-G (RV502)		(on EB or DE board)

(1) PICTURE TUBE FOCUS ADJUSTMENT

- 1) Set POWER switch to ON.
- 2) Look at the picture tube <G> through the lens and adjust RV801 for best focus. (Fig. 3-3)

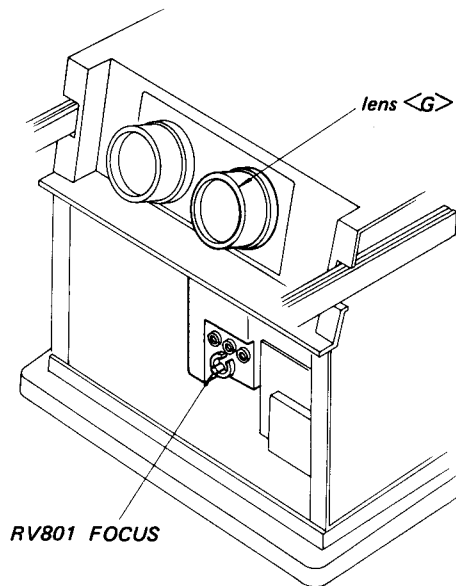


Fig. 3-3

- 3) Set the POWER switch to OFF.
- 4) Set the de-focus magnet as shown in Fig. 3-4 and apply suitable locking compound.

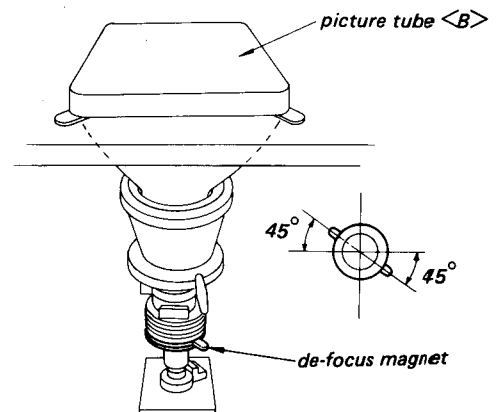


Fig. 3-4

(2) LENS FOCUS ADJUSTMENTS

- 1) Disconnect the BB-9 connector from BB board.
- 2) Cover the lens <R>/ with a cap or equivalent.
- 3) Set the POWER switch to ON.
- 4) Turn the lens <G> for best focus on the screen.
- 5) Tighten the set-screw <G> in position.
- 6) Remove the cap on the lens <R>/ and cover the lens <G> with a cap or equivalent.
- 7) Turn the lens <R>/ for best focus on the screen.
- 8) Tighten the set-screw <R>/ in position.

(Fig. 3-5)

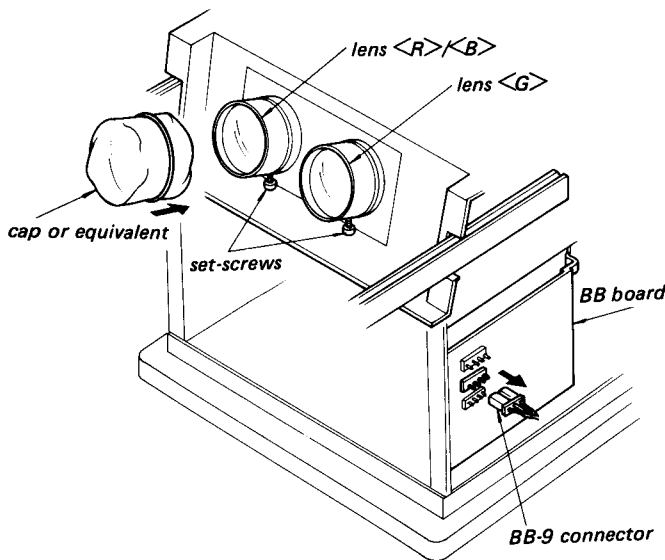


Fig. 3-5

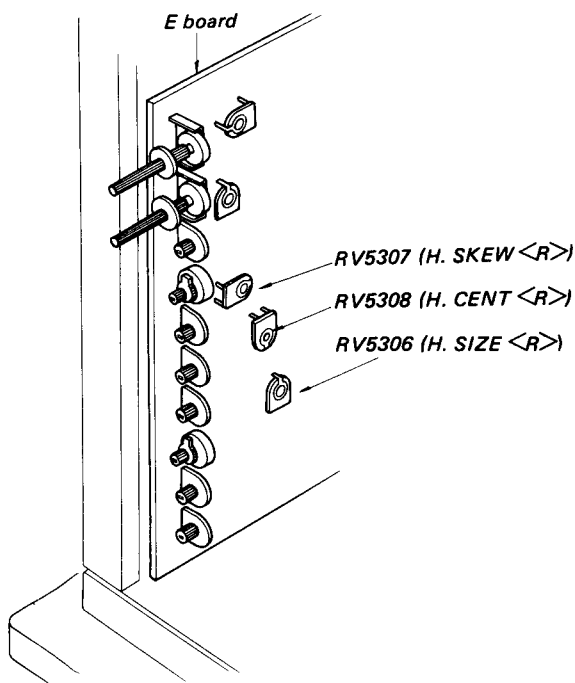


Fig. 3-6

(3) RED PICTURE ADJUSTMENT

- 1) Disconnect the BB-9 connector from the BB board, and cover the lens <G> with a cap or equivalent.
- 2) Rotate the red deflection yoke to make the horizontal center line of cross-hatch pattern horizontal as shown in Fig. 3-7.

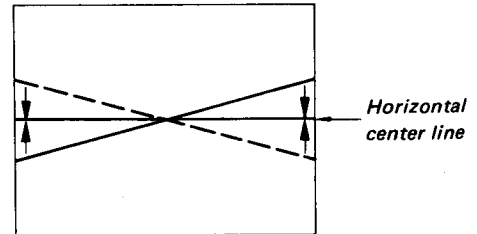


Fig. 3-7

- 3) Tighten the deflection yoke screw in position.
- 4) Position the neck assembly as shown in Fig. 3-8.

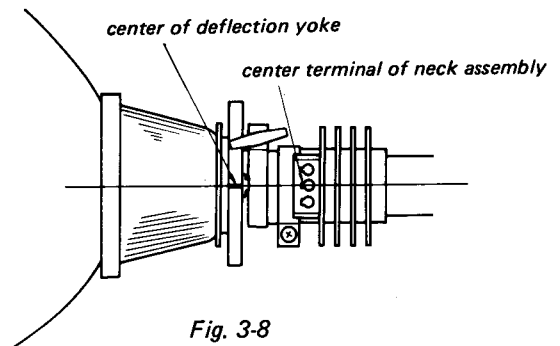


Fig. 3-8

- 5) Adjust RV5307 (H. SKEW <R>) to make the vertical center line of cross-hatch pattern vertical as shown in Fig. 3-9.

vertical center line

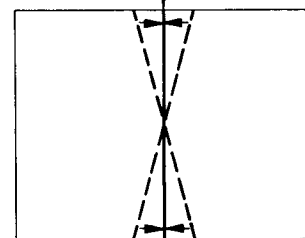


Fig. 3-9 (1)

Movement of H. SKEW (RV5307 <R>)

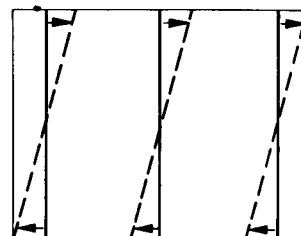


Fig. 3-9 (2)



- 6) Set the HATCH switch to NORMAL. (Fig. 3-10)

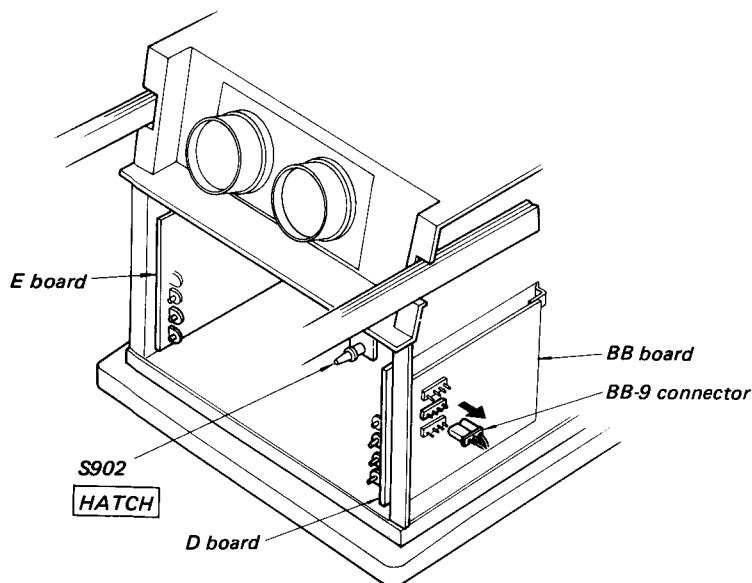


Fig. 3-10

- 7) Turn the PICTURE control 4/5 (80%) turns clockwise, and the BRIGHT control to mechanical-mid position.

- 8) Make the following adjustments.

- ① H. CENT<R>RV5308 E board

A) Tune in an off-air signal.

B) Adjust RV5306 (H. SIZE<R>) so that the horizontal picture size is a little less than the screen size.

C) Adjust RV5308 (H. CENT<R>) so that "a" is equal to "b" as shown in Fig. 3-11.

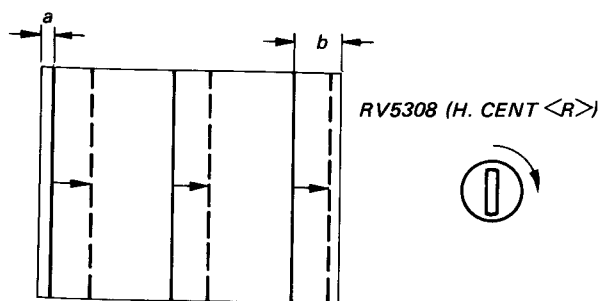


Fig. 3-11

- D) Make H. SIZE (RV5306<R>) adjustment.

- ② H. SIZE<R>RV5306 E board

A) Tune in an off-air signal.

B) Adjust RV5306 (H. SIZE<R>) so that the horizontal picture size is as shown in Fig. 3-12 (1).

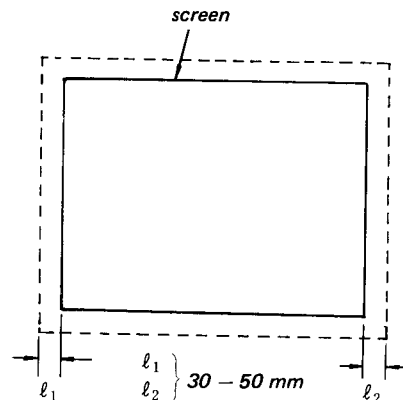


Fig. 3-12 (1)

Movement of H. SIZE (RV5306 <R>)

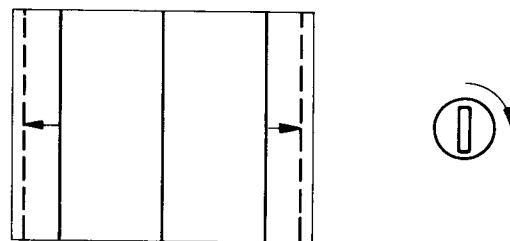


Fig. 3-12 (2)

- ③ V. CENT<R>RV5502 D board

A) Tune in an off-air signal.

B) Adjust RV5501 (V. SIZE<R>) so that the vertical picture size is a little less than the screen size.

C) Adjust RV5502 (V. CENT<R>) so that "a" is equal to "b" as shown in Fig. 3-13.

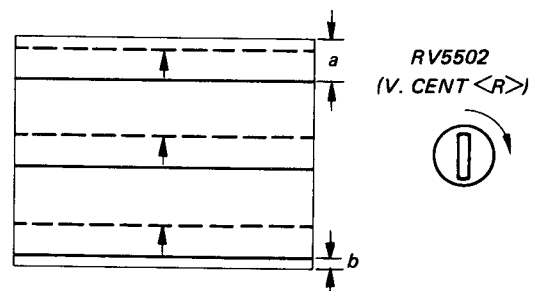


Fig. 3-13

- D) Make V. SIZE<R>(RV5501) adjustment.

④ V. SIZE <R> RV5501 D board

- A) Tune in an off-air signal.
- B) Adjust RV5501 (V. SIZE <R>) so that the vertical picture size is as shown in Fig. 3-14 (1).

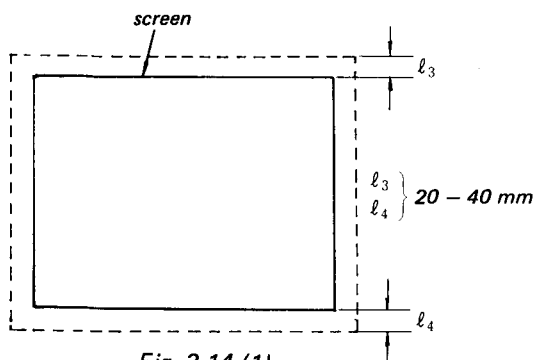


Fig. 3-14 (1)

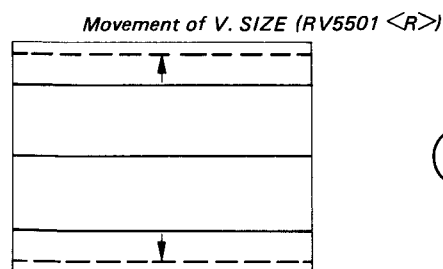


Fig. 3-14 (2)

If the V. CENT <R> adjustment can not be obtained by the step ③, make the following adjustment,

- A) Adjust RV5502 (V. CENT <R>) for mechanical-mid position.
- B) Tune in an off-air signal.
- C) Adjust RV5501 (V. SIZE <R>) so that the vertical picture size is a little less than the screen size.
- D) Adjust the screw so that the picture is at the center of the screen as shown in Fig. 3-15.
- E) Make the V. CENT (RV5502 <R>) and the V. SIZE (RV5501 <R>) adjustments. (Fig. 3-15)

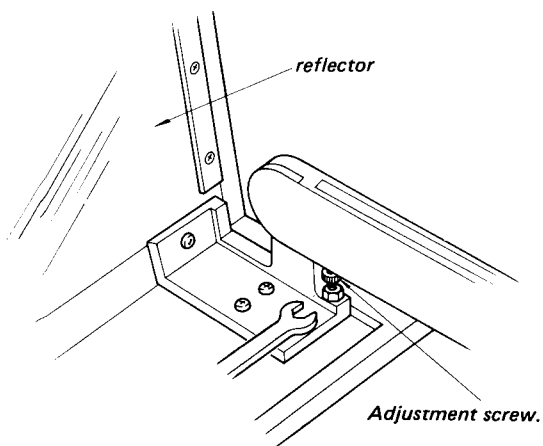


Fig. 3-15

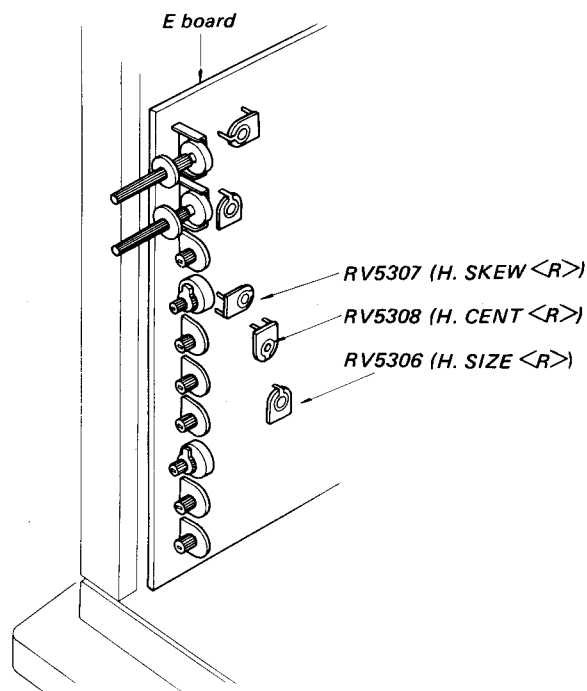


Fig. 3-16

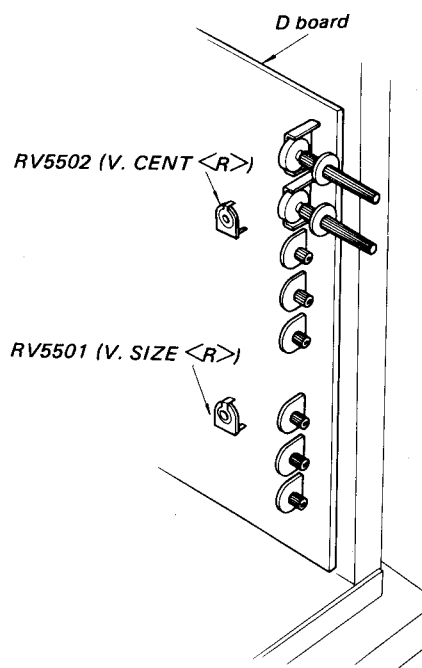


Fig. 3-17

(4) VERTICAL ADJUSTMENT OF RED AND GREEN PICTURES

- 1) Set the HATCH switch to TEST.
- 2) Disconnect the BB-9 connector from the BB board.
- 3) Adjust RV5506 (V. CENT <G>) to approach the green horizontal center line to the red horizontal center line properly for easier adjustment.
- 4) Rotate the deflection yoke <G> so that the green horizontal center line is parallel with the red horizontal center line (Fig. 3-18) or " ℓ_1 " (" ℓ_3 ") is equal to " ℓ_2 " (" ℓ_4 ") (Fig. 3-19).

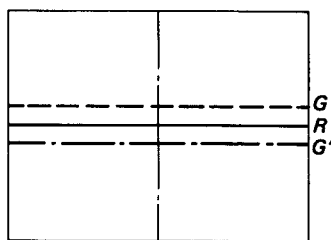


Fig. 3-18

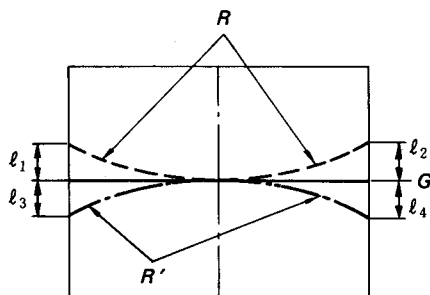
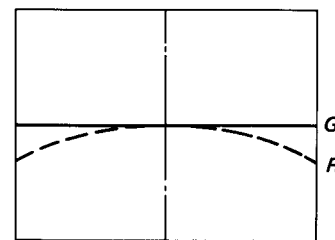


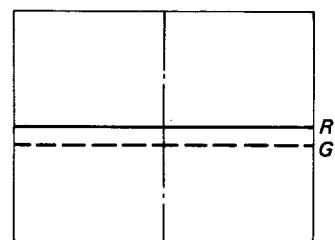
Fig. 3-19

- 5) Tighten the deflection yoke screw <G> in position
- 6) Position the neck assembly <G> as shown in Fig. 3-8. Tighten the neck assembly screw in position.
- 7) A) When the green horizontal center line is positioned as shown in Fig. 3-18; Adjust RV5506 (V. CENT <G>) to converge the green horizontal center line and red horizontal center line.
B) When the green horizontal center line is position as shown in Fig. 3-19;
 - ① Rotate the neck assembly <R> so that the red horizontal center line is parallel with the green horizontal center line, and tighten neck assembly screw <R> in position.
 - ② Perform the step A). (Fig. 3-20)



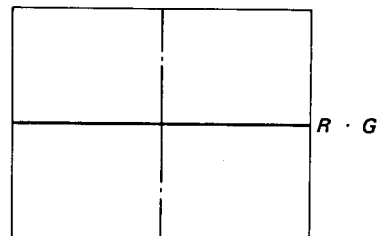
(1)

↓ Rotate neck assembly <R>.



(2)

↓ Adjust RV5506 (V. CENT <G>).



(3)

Fig. 3-20

- 8) When the green horizontal center line is slanting as shown in Fig. 3-21.

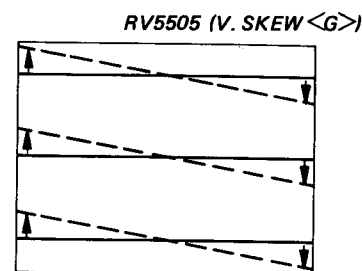


Fig. 3-21

- ① Adjust RV5505 (V. SKEW <G>) so that the red horizontal center line is parallel with the green horizontal center line.
- ② Repeat the procedures 6) and 7).

- 9) When the vertical adjustment can not be obtained by using RV5505 (V. SKEW <G>), set RV5505 (V. SKEW <G>) to the mechanical-mid position and perform the step (4) through (7) again.
- 10) Adjust RV5503 (V. SIZE <G>) so that " ℓ_1 " is equal to " ℓ_2 " as shown in Fig. 3-22.

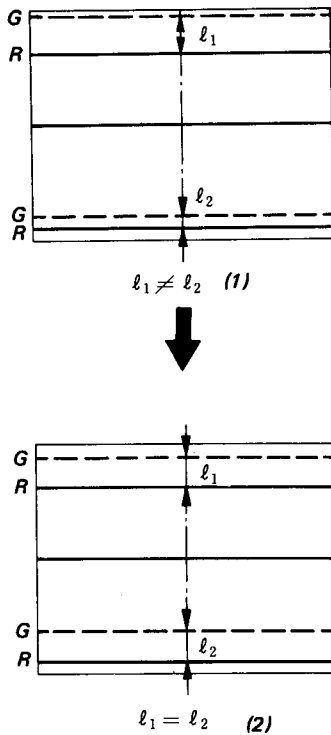


Fig. 3-22

- 11) Adjust RV5504 (V. LIN <G>) so that " ℓ_1 ", " ℓ_2 " and " ℓ_3 " are equal as shown in Fig. 3-23 (1).

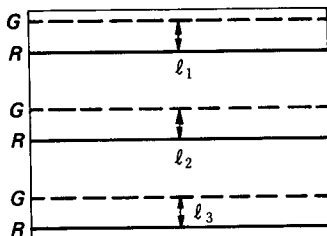


Fig. 3-23 (1)

Movement of V. LIN (RV5504 <G>)

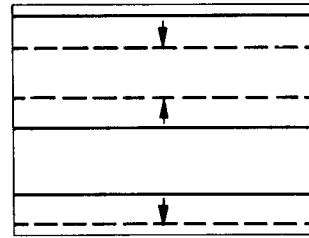


Fig. 3-23 (2)

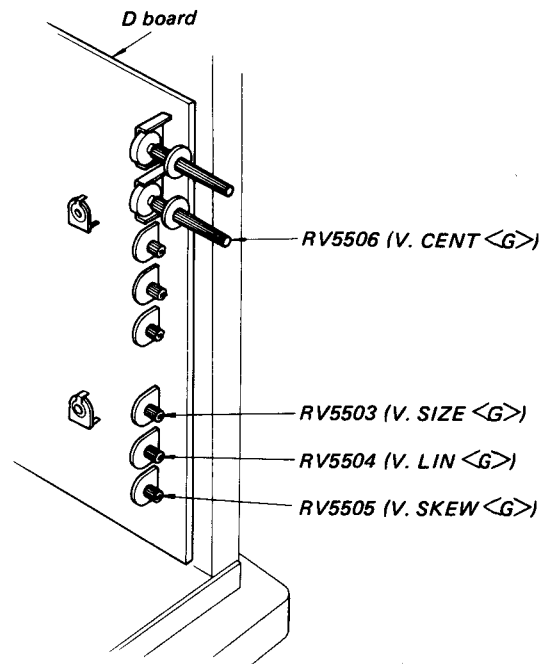


Fig. 3-24

- 12) Adjust RV5506 (V. CENT <G>) to converge the green horizontal lines and the red horizontal lines as shown in Fig. 3-25 (1).

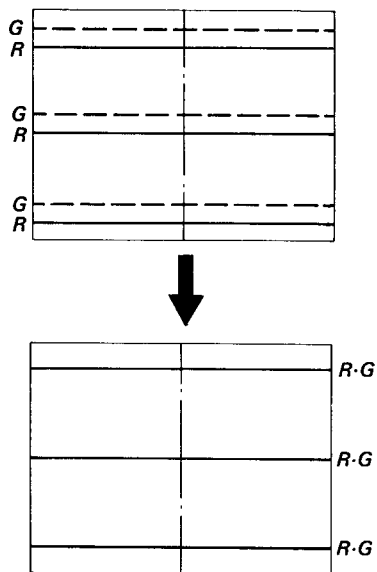


Fig. 3-25 (1)

Movement of RV5506 (V. CENT <G>)

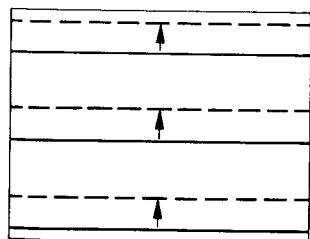


Fig. 3-25 (2)

If necessary, repeat the steps 10) through 12).

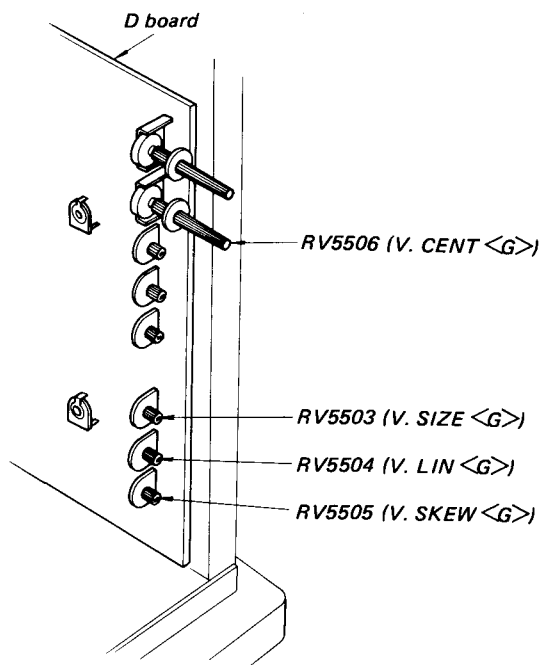


Fig. 3-26

(5) HORIZONTAL ADJUSTMENT OF RED AND GREEN PICTURES

- 1) Set the HATCH switch to TEST.
- 2) Disconnect the BB-9 connector from the BB board.
- 3) Adjust RV5305 (H. CENT <G>) to approach the green vertical center line to the red vertical center line properly for easier adjustment.
- 4) Adjust RV5303 (H. SKEW <G>) so that the green vertical center line is parallel with the red vertical center line (Fig. 3-27) or " ℓ_1 " (" ℓ_3 ") is equal to " ℓ_2 " (" ℓ_4 ") (Fig. 3-28).

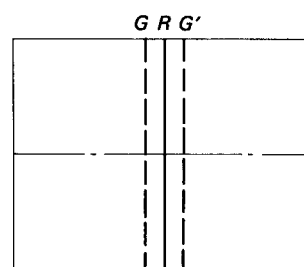


Fig. 3-27

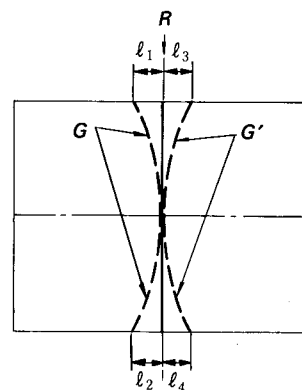


Fig. 3-28

Movement of RV5303 (H. SKEW <G>)

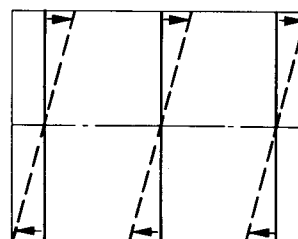
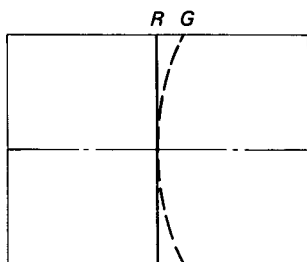
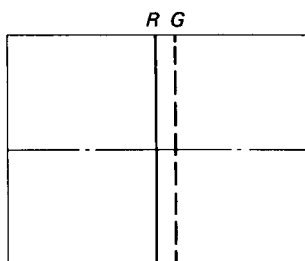


Fig. 3-29

- 5) A) When the green center line is positioned as shown in Fig. 3-27;
Adjust RV5305 (H. CENT<G>) to converge the green vertical center line and the red vertical center line.
- B) When the green center line is positioned as shown in Fig. 3-28;
- ① Adjust RV5304 (H. BOW <G>) so that the vertical center line is parallel with the red vertical center line.
 - ② Perform the step A).



Adjust RV5304
(H. BOW <G>)



Adjust RV5305
(H. CENT <G>).

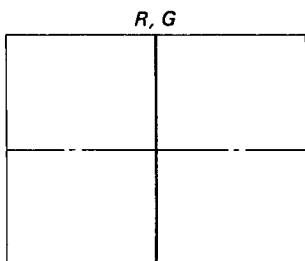


Fig. 3-30 (1)

Movement of RV5304 (H. BOW <G>).

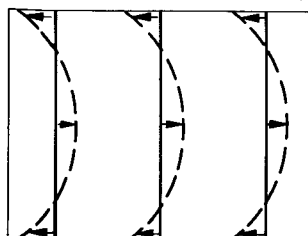


Fig. 3-30 (2)

- 6) Adjust RV5301 (H. KEYS<G>) so that the green vertical lines are parallel with the red vertical lines on the entire screen in Fig. 3-31 (1).

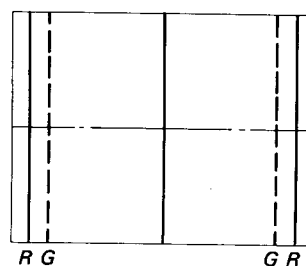
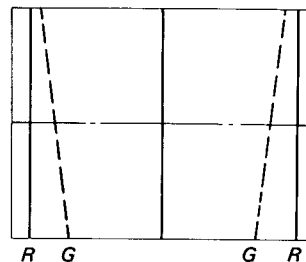


Fig. 3-31 (1)

Movement of RV5301 (H. KEYS <G>)

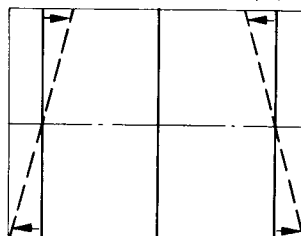


Fig. 3-31 (2)

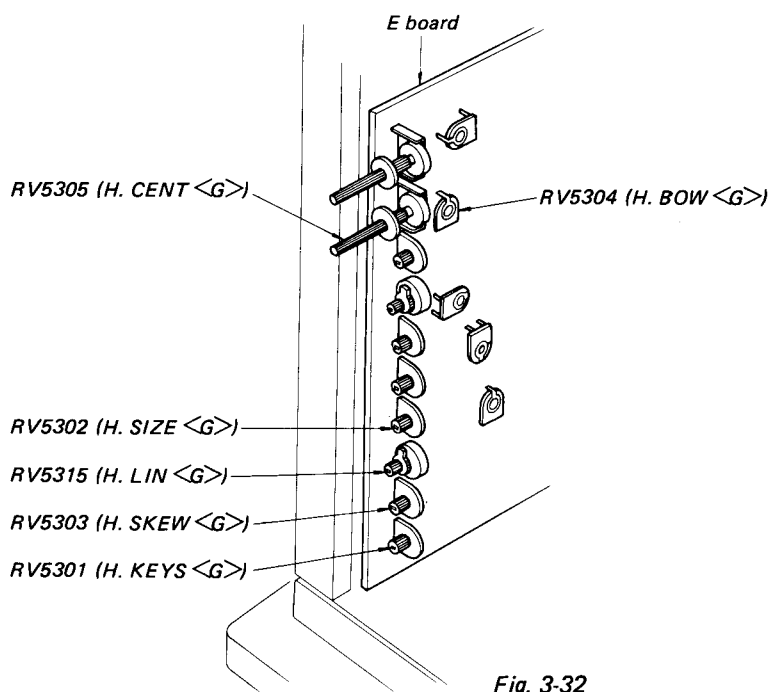


Fig. 3-32

- 7) Adjust RV5302 (H. SIZE <G>) so that " ℓ_1 " is equal to " ℓ_2 " as shown in Fig. 3-33 (1).

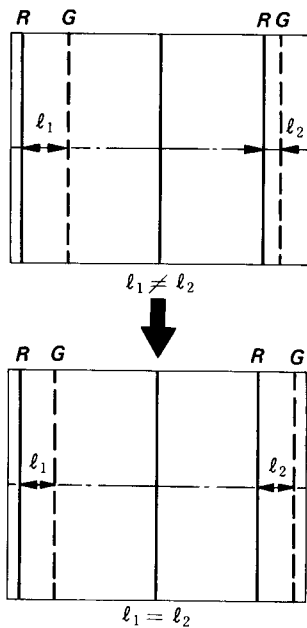


Fig. 3-33 (1)

Movement of RV5302 (H. SIZE <G>)

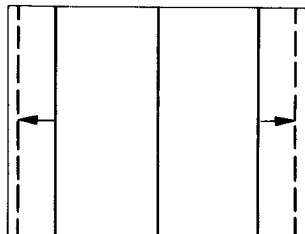


Fig. 3-33 (2)

- 8) Adjust RV5315 (H. LIN<G>) so that " ℓ_1 ", " ℓ_2 " and " ℓ_3 " are equal as shown in Fig. 3-34 (1).

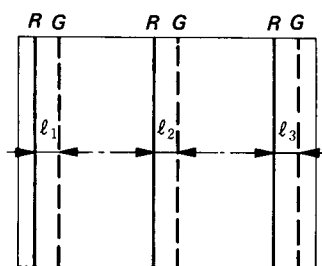


Fig. 3-34 (1)

Movement of RV5315 (H. LIN <G>)

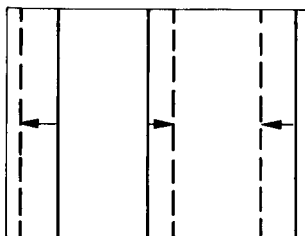


Fig. 3-34 (2)

- 9) Adjust RV5305 (H. CENT<G>) to converge the green vertical lines and the red vertical lines as shown in Fig. 3-35 (1).

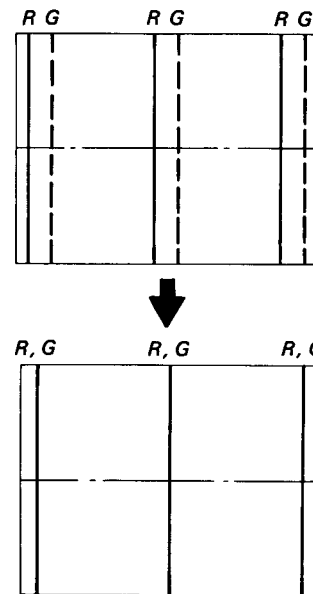


Fig. 3-35 (1)

Movement of RV5305 (H. CENT <G>)

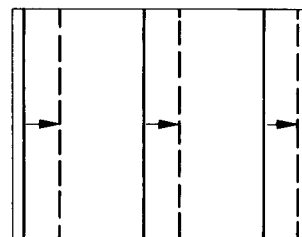


Fig. 3-35 (2)

If necessary, repeat the steps 7) through 9).

- 10) When the green vertical lines slanting at the both sides of the screen as shown in Fig. 3-36; Readjust RV5301 (H. KEYS<G>) so that " ℓ_1 " is equal to " ℓ_2 ".

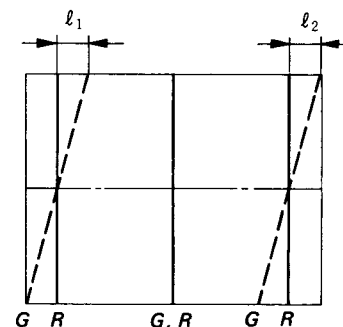


Fig. 3-36

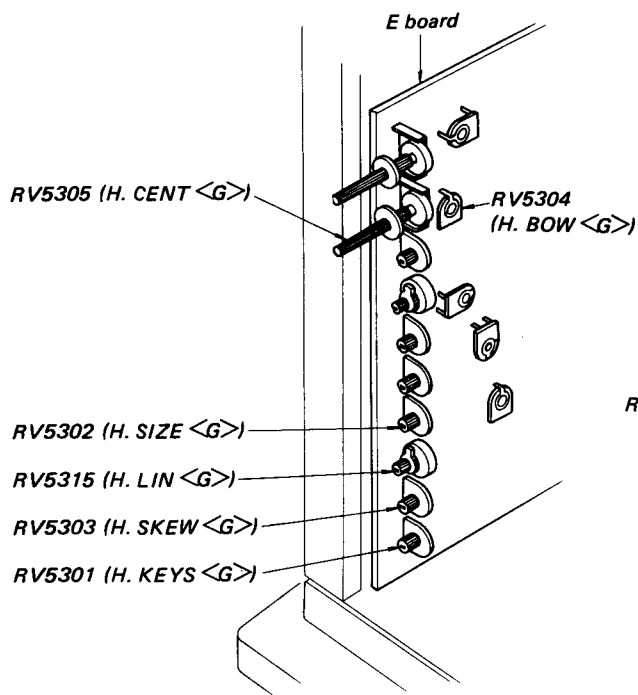


Fig. 3-37

- 11) If the registration can not be adjusted, perform fine adjustment of RV501 (H. SUB. BOW <G>) and RV502 (H. SUB SKEW <G>).

Movement of H. SUB BOW (RV501) Movement of H. SUB SKEW (RV502)

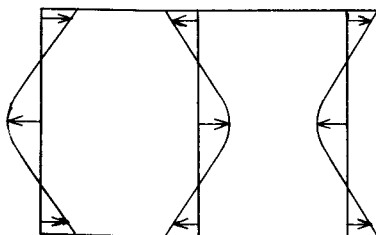


Fig. 3-38 (1)

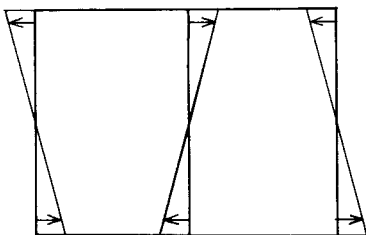


Fig. 3-38 (2)

- 12) If necessary, repeat the steps 10) and 11).

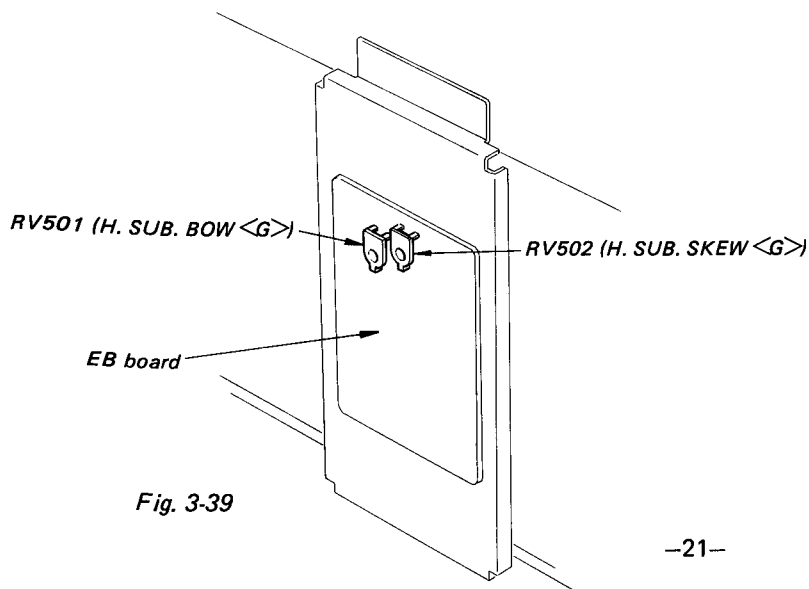


Fig. 3-39

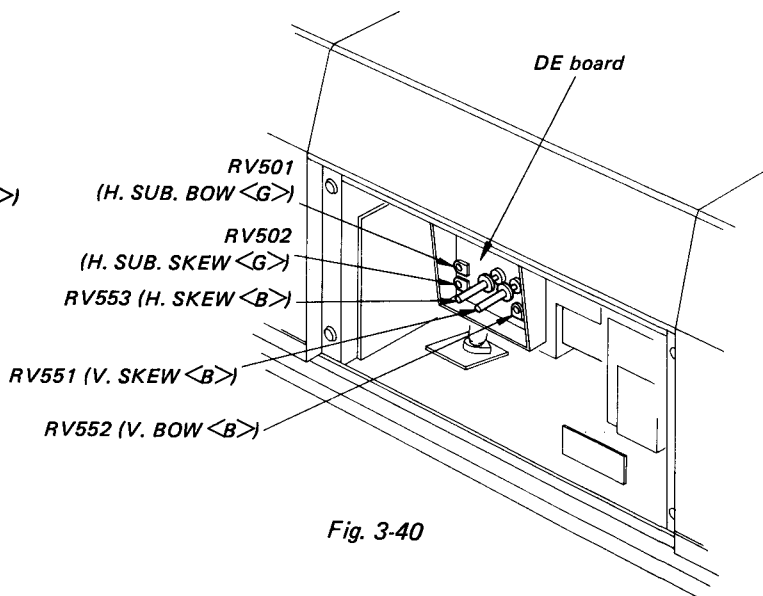


Fig. 3-40

(6) FINE ADJUSTMENT OF GREEN AND RED VERTICAL AND HORIZONTAL PICTURES

When the mis-registration appears at the corners on the screen, affix a permalloy ass'y as shown in Fig. 3-41.

(X-4309-608-0
Permalloy Ass'y, convergence compensation)

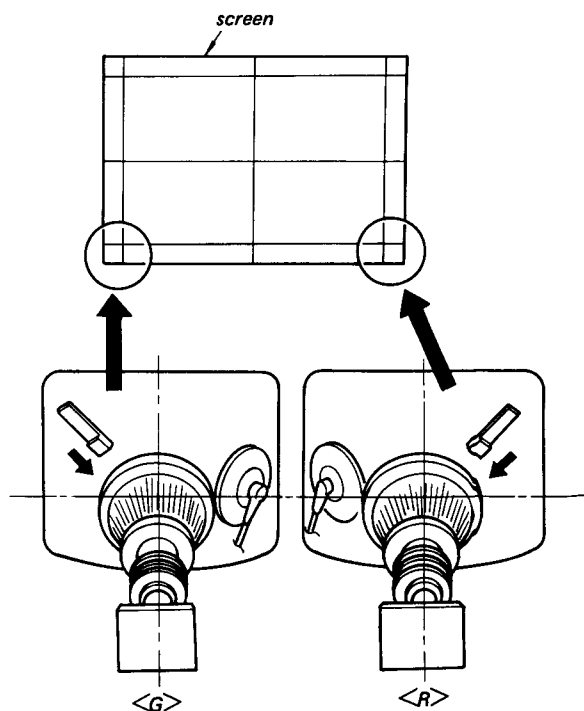


Fig. 3-41

(7) VERTICAL AND HORIZONTAL ADJUSTMENTS OF RED AND BLUE PICTURES

- 1) Set HATCH switch to TEST.
- 2) Connect the BB-9 connector on the BB board.
- 3) Cover the lens <G> with a cap or equivalent.
- 4) Adjust RV5313 (H. CENT) and RV5510 (V. CENT) to approach the center of blue cross-hatch pattern to center of red cross-hatch pattern.

Make the following adjustments (Refer to the RED AND GREEN PICTURE ADJUSTMENTS as described in the procedure (4), (5) and (6)).

• VERTICAL ADJUSTMENT RED AND BLUE PICTURES

- 1) Rotation of deflection yoke.
- 2) Rotation of neck assembly.
- 3) RV5510 (V. CENT)
- 4) RV5509 (V. SKEW) on E board or RV551 (V. SKEW) on DE board.
- 5) RV552 (V. BOW)
- 6) If necessary, repeat the above steps.
- 7) RV5507 (V. SIZE)
- 8) RV5508 (V. LIN)
- 9) RV5510 (V. CENT)
- 10) If necessary, repeat the steps 7) through 9).

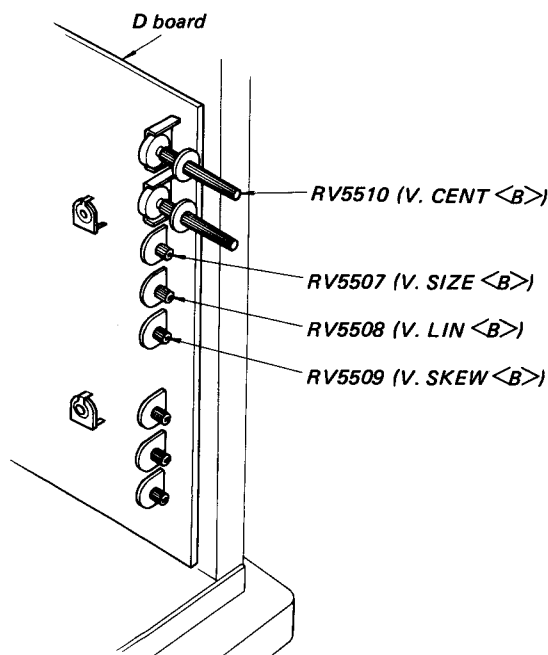


Fig. 3-42

• HORIZONTAL ADJUSTMENT RED AND BLUE PICTURES

- 1) RV5311 (H. SKEW) on E board or RV553 (H. SKEW) on DE board.
- 2) RV5312 (H. BOW)
- 3) RV5313 (H. CENT)
- 4) If necessary, repeat the above steps.
- 5) RV5309 (H. KEYS)
- 6) RV5310 (H. SIZE)
- 7) RV5314 (H. LIN)
- 8) RV5313 (H. CENT)
- 9) If necessary, repeat the steps 5) through 8).
- 10) RV5309 (H. KEYS)

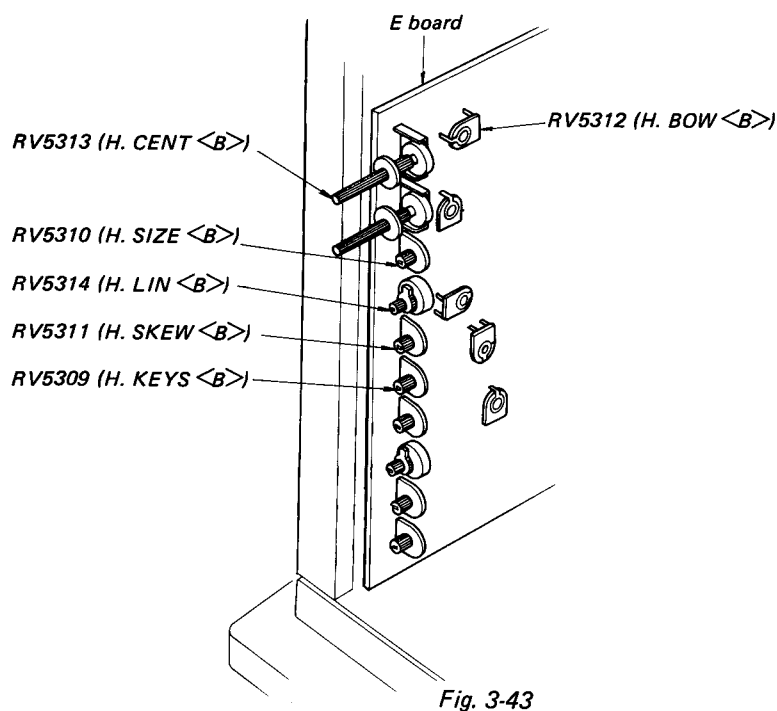


Fig. 3-43

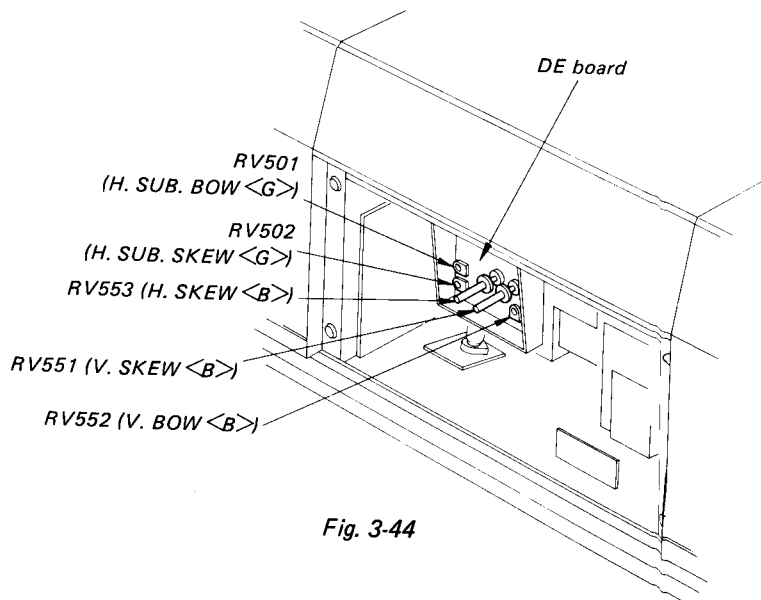
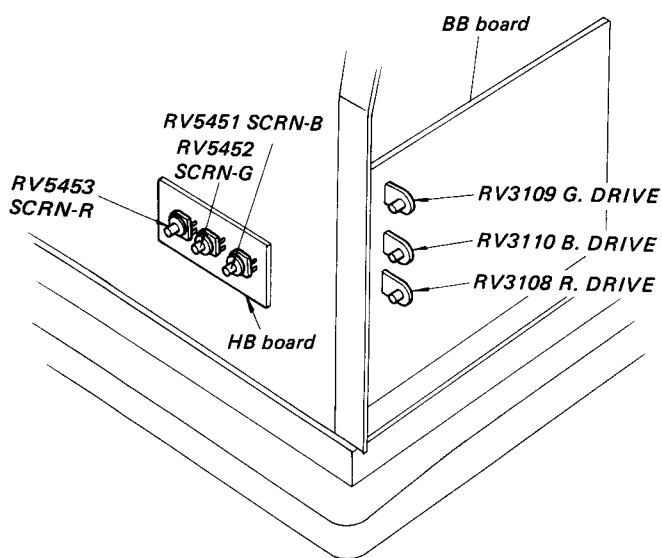


Fig. 3-44

3-2. WHITE BALANCE ADJUSTMENTS

- 1) Controls and switches should be set as follows;
HATCH switch NORMAL
COLOR control fully counterclockwise
- 2) Tune in an off-air signal.
- 3) Set RV5451 (SCRN-B), RV5452 (SCRN-G) and RV5453 (SCRN-R) to mechanical-mid position.
- 4) Turn the BRIGHT and the PICTURE controls fully counterclockwise.
- 5) Cover the lens <R>/ with a cap or equivalent.
- 6) Turn RV5452 (SCRN-G) slowly to obtain a faintly visible cross-hatch on the screen.
- 7) Remove the cap.
- 8) Adjust RV5451 (SCRN-B) and RV5453 (SCRN-R) for best white balance (natural gray) of faint cross-hatch.
- 9) Turn the BRIGHT and the PICTURE controls fully clockwise.
- 10) Turn the RV3109 (G. DRIVE) fully clockwise.
- 11) Adjust RV3108 (R. DRIVE), RV3110 (B. DRIVE) for best white balance.
- 12) Repeat the above steps 8) through 11) two or three times.

*Fig. 3-45*

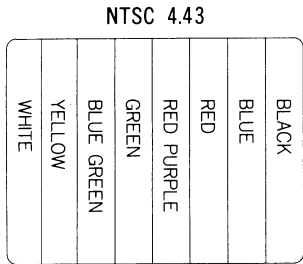
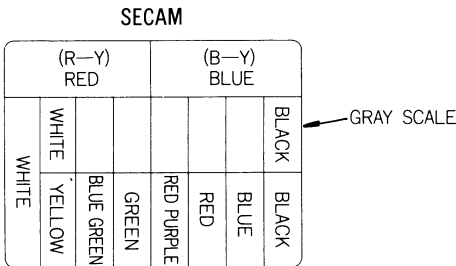
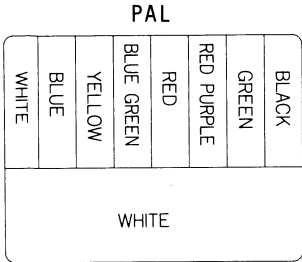
Note:

(1) TEST EQUIPMENT REQUIRED

- 1. Oscilloscope
- 2. Voltmeter (VOM)
- 3. Digital multimeter
- 4. Color-bar/pattern generator
- 5. Video tuner
- 6. Variable auto-transformer

(2) INPUT SIGNAL

These adjustments are performed with the following color-bar signal inputs.



(3) CONTROL AND SWITCH SETTINGS

Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control 4/5 (80%) turns clockwise
BRIGHT control mechanical-mid
COLOR control
HUE control
HATCH switch NORMAL

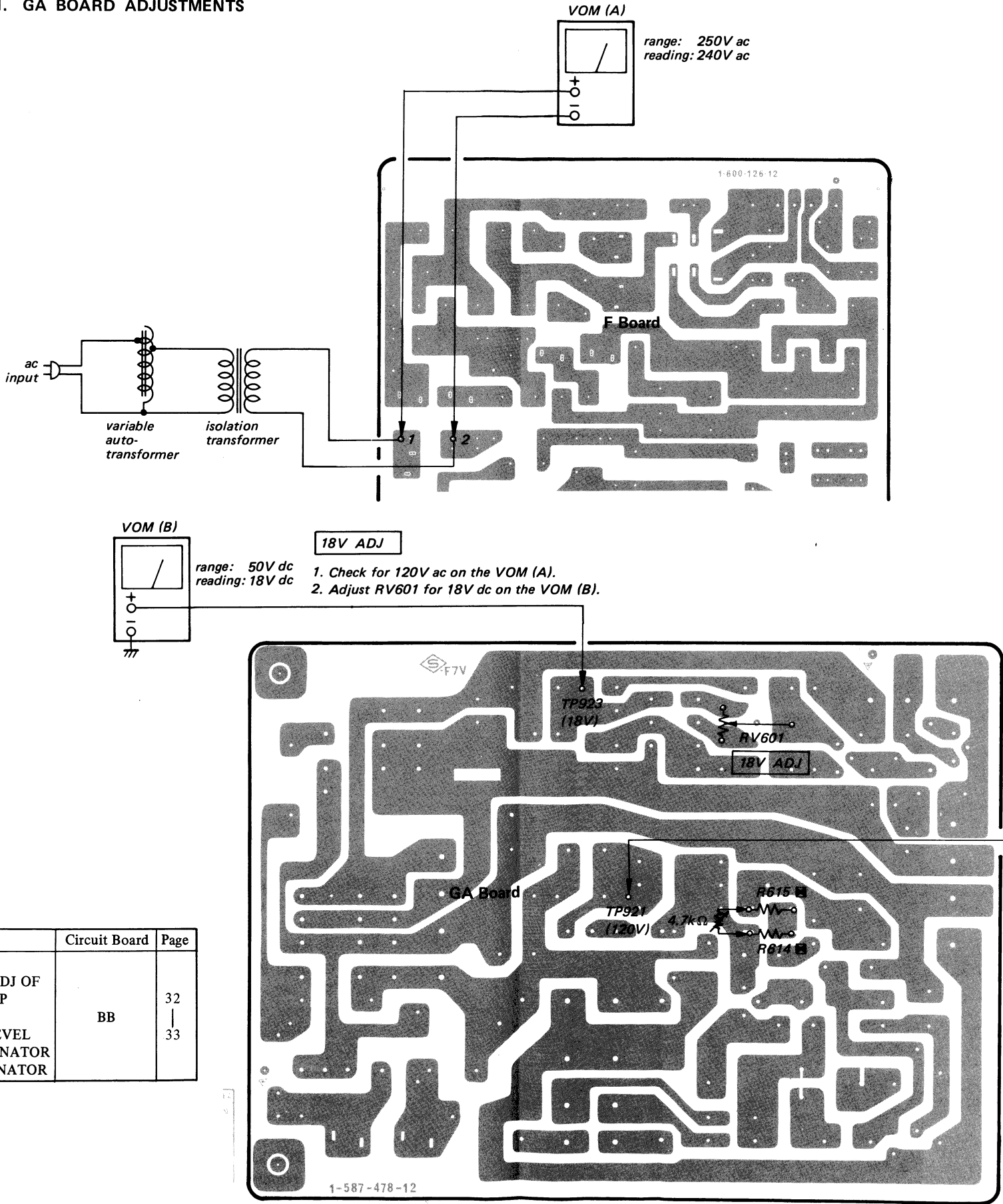
(4) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page	Adjustment	Circuit Board	Page
18V ADJUSTMENT	GA	25, 26	CW PHASE		
R614/R615 ADJUSTMENT			DC BALANC ADJ OF CHROMA AMP	BB	32 33
H. HOLD	GB	27, 28	SECAM ID		
R6211/R6212 ADJUSTMENT			R-Y DISCRI LEVEL		
R6207/R6208 ADJUSTMENT			B-Y DISCRI MINATOR		
OSC KILLER			R-Y DISCRIMINATOR		
ACC					
BELL FILTER					
BKG	BB	29 31			
1H DELAY					
TOT					
4.43MHz TRAP					
4.25MHz TRAP					

(5) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

SECTION 4
CIRCUIT ADJUSTMENTS

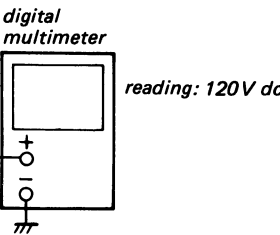
4-1. GA BOARD ADJUSTMENTS



R614/R615 ADJUSTMENT

When replacing the following components, make this adjustment.
D602, R611, R612, R613 } GA board
R614, R615 }

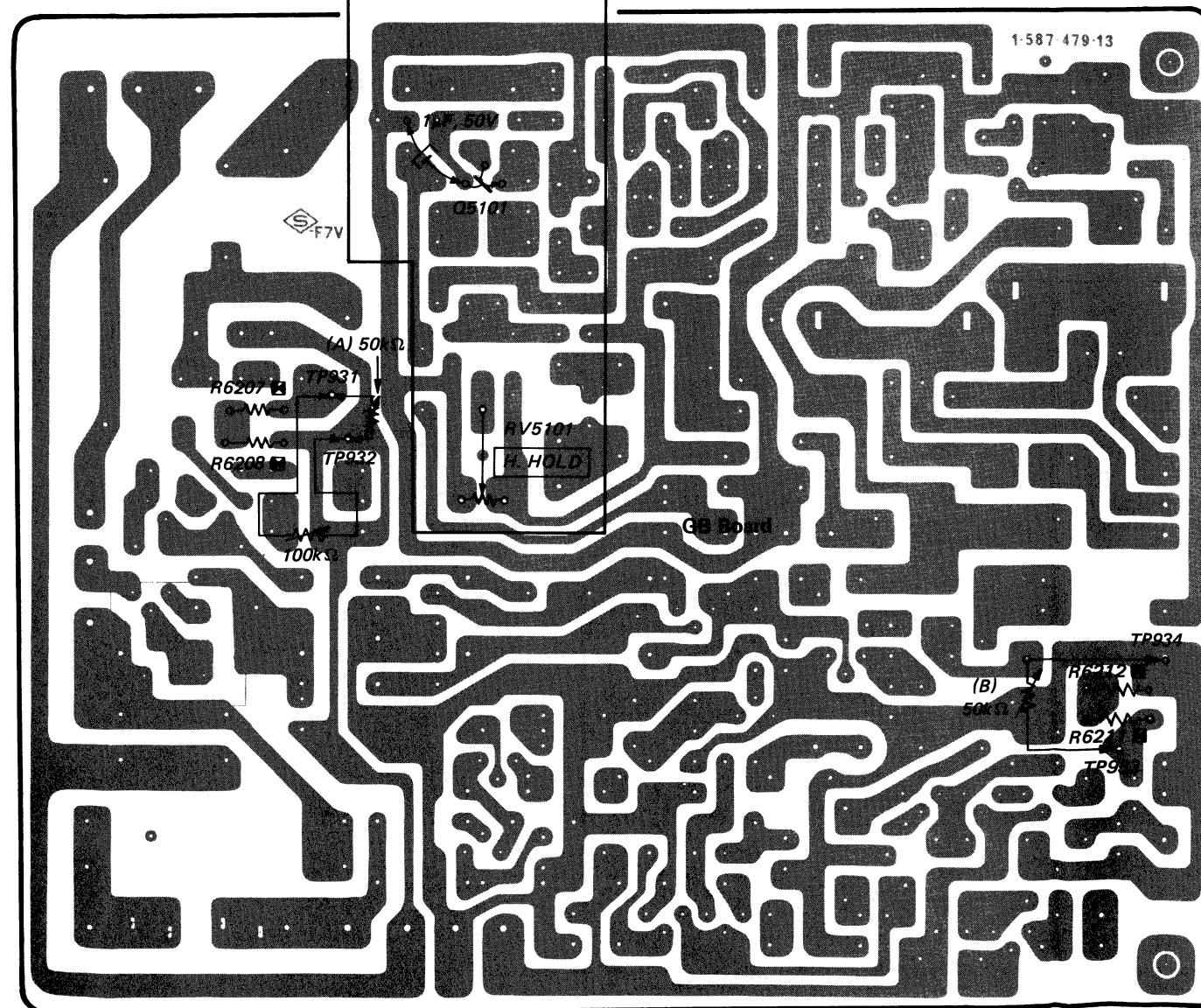
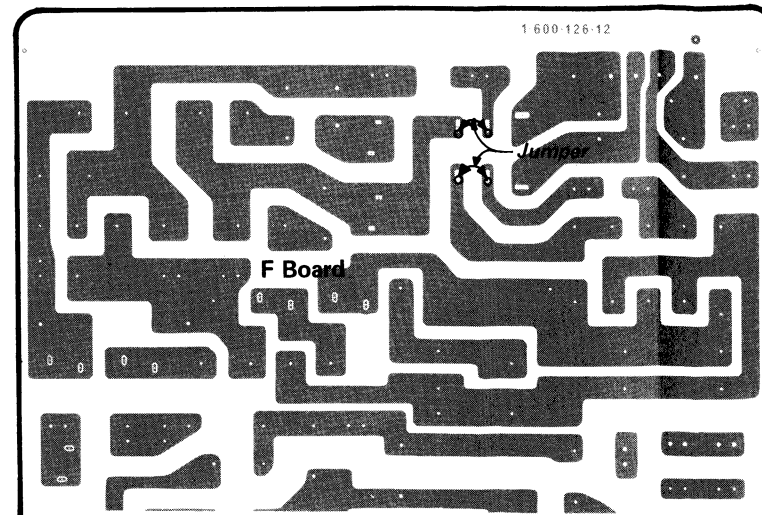
- (1) Connect a digital multimeter between TP921 and ground on the GA board.
- (2) Set voltage selector (S6103) to 240V position and connect variable auto-transformer as shown. Adjust the variable auto-transformer for 240V ac on VOM (A).
- (3) Set the POWER switch to ON.
- (4) Check for 119–121V dc on the digital multimeter. If necessary, proceed to the step (5) through (10).
- (5) Remove R614 and R615, and connect a 4.7kΩ variable resistor instead of them.
- (6) Adjust the variable resistor for 120V dc on the digital multimeter.
- (7) Set the POWER switch to OFF.
- (8) Remove the variable resistor and measure the resistance value of it with the digital multimeter.
- (9) Select the resistance values of R614 and R615 (carbon type, ¼W) so that sum of series resistance value of R614 and R615 is equal to the value of in step (8).
- (10) Set the POWER switch to ON, and check for 119–121V dc on the digital multimeter.



4.2. GB BOARD ADJUSTMENTS

H. HOLD

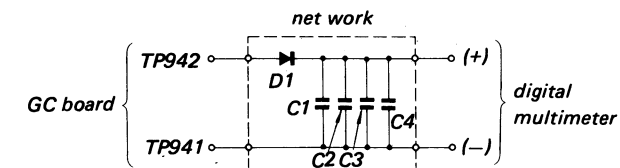
1. Connect 1 μ F/50V electrolytic capacitor during this adjustment as shown.
2. Tune in an off-air signal.
3. Adjust RV5101 to synchronize the picture.



R6211/R6212 ADJUSTMENT

Note: Before starting this adjustment, set the voltage selector (S6103) to 240V position and adjust the variable auto-transformer for 240V ac on VOM (A).

- (1) Make the following network and connect a digital multimeter as shown below.



Diode (D1): SB2B

Capacitors (C1–C4): 16,000pF/1.5kV polyethylene (1-129-924-00)

Digital multimeter: Capable of measuring the voltages of more than 1,000V

- (2) Turn the BRIGHT and PICTURE controls fully clockwise.
- (3) Feed in the white pattern from color-bar/pattern generator.
- (4) Remove R6207 and connect a 50k Ω variable resistor (A) between the test points TP931 and TP932 on the GB board. Set the variable resistor (A) to maximum position.
- (5) Remove R6211 and R6212, and connect a 50k Ω variable resistor (B) between the test points TP933 and TP934 on the GB board. Set the variable resistor (B) to minimum position.
- (6) Set the POWER switch to ON.
- (7) Adjust the variable resistor (A) for 523–525V dc on the digital multimeter.
- (8) Set the variable resistor (B) to the point where the POWER is automatically turned OFF.
- (9) Remove the variable resistor (B) and measure the resistance value of it with the digital multimeter.
- (10) Select the resistance values of R6211 and R6212 (carbon type, 1/4W) so that sum of series resistance value of R6211 and R6212 is equal to the value in step (9).
- (11) Connect R6211 and R6212.
- (12) Set the variable resistor (A) to maximum position, and set the POWER switch (S6101) to ON again.
- (13) Connect two jumpers.
- (14) Decrease the value of variable resistor (A) and make sure that the picture begins to become unstable at 519–529V dc on the digital multimeter.
- (15) Set POWER switch to OFF. Connect R6207 and remove the variable resistor (A), the network and digital multimeter.

When replacing the following components, adjust R6211/R6212 and R6207/R6208 as described below.
 DC851 (HV block)
 T801 (FBT-1), T802 (FBT-2)
 R807, R808, R810 HV block
 Q6204, Q6205, D6207, R6207 } GB board
 R6208, R6210, R6211, R6212 } GB board
 C802, C803, C804, C805 GC board

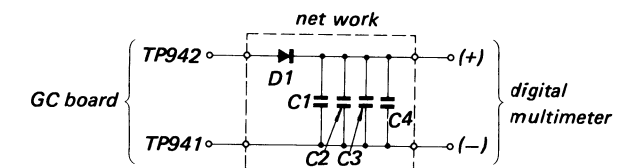
R6207/R6208 ADJUSTMENT

When replacing the following components, make this adjustment.

R805, R806, R809 HV block
 Q6201, Q6202, Q6203, Q6214 } GB board
 D6201, R6206, R6237

- (1) Make the following network and connect a digital multimeter as shown below.

Note: Before starting this adjustment, set the voltage selector (S6103) to 240V position and adjust the variable auto-transformer for 240V ac on VOM (A).



Diode (D1): SB2B

Capacitors (C1–C4): 16,000pF/1.5kV polyethylene (1-129-924-00)

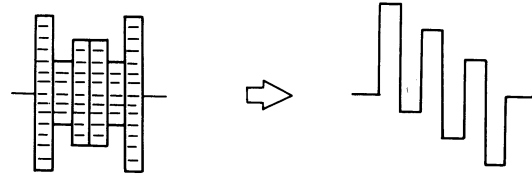
Digital multimeter: Capable of measuring the voltage of more than 1,000V

- (2) Turn the BRIGHT and PICTURE controls fully clockwise.
- (3) Feed in the white pattern from color-bar/pattern generator.
- (4) Remove R6207 and R6208, and connect a 100k Ω variable resistor between test points TP931 and TP932 on the GB board. Set the variable resistor to maximum position.
- (5) Set the POWER switch to ON, and adjust the variable resistor for 483–485V dc on the digital multimeter.
- (6) Set the POWER switch to OFF.
- (7) Remove the variable resistor and measure the resistance value of it with the digital multimeter.
- (8) Select the resistance value of R6207 and R6208 (carbon type, 1/4W) so that sum of series resistance value of R6207 and R6208 is equal to the value in step (7).
- (9) Connect the resistor R6207 and R6208.
- (10) Set the POWER switch to ON and make sure that the digital multimeter indicates 479–489V dc.
- (11) Set the POWER switch to OFF. Remove the network and the digital multimeter.

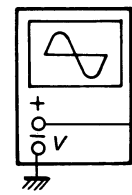
4-3. BB BOARD ADJUSTMENTS

OSC

1. Feed in a PAL color-bar signal.
2. Connect an electrolytic capacitor (10 μ F/16V) as shown during this adjustment.
3. Connect the oscilloscope to the terminal 8 of IC3104.
4. Adjust CV3101 for stable waveform on oscilloscope as shown.



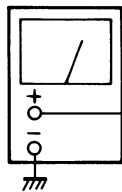
oscilloscope



KILLER

1. Feed in a PAL color-bar signal.
2. Connect an electrolytic capacitor (10 μ F/16V) as shown during this adjustment.
3. Adjust RV3105 for 4V dc on VOM.

VOM



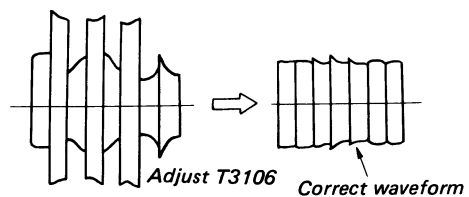
range: 5V dc
reading: 4V dc

ACC

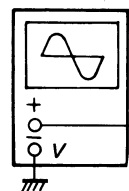
1. Turn in a strong off-air signal.
2. Set PICTURE control to 4/5 (80%) turns clockwise.
3. Set COLOUR control to mechanical center.
4. Adjust RV3106 for suitable color intensity.

BELL FILTER

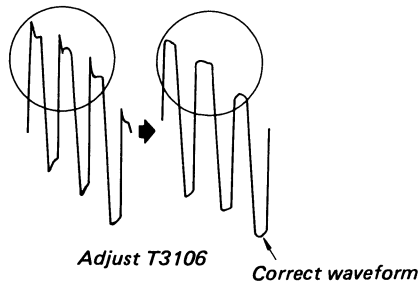
1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the terminal 3 of IC3101.
3. Adjust T3106 to obtain a correct waveform.



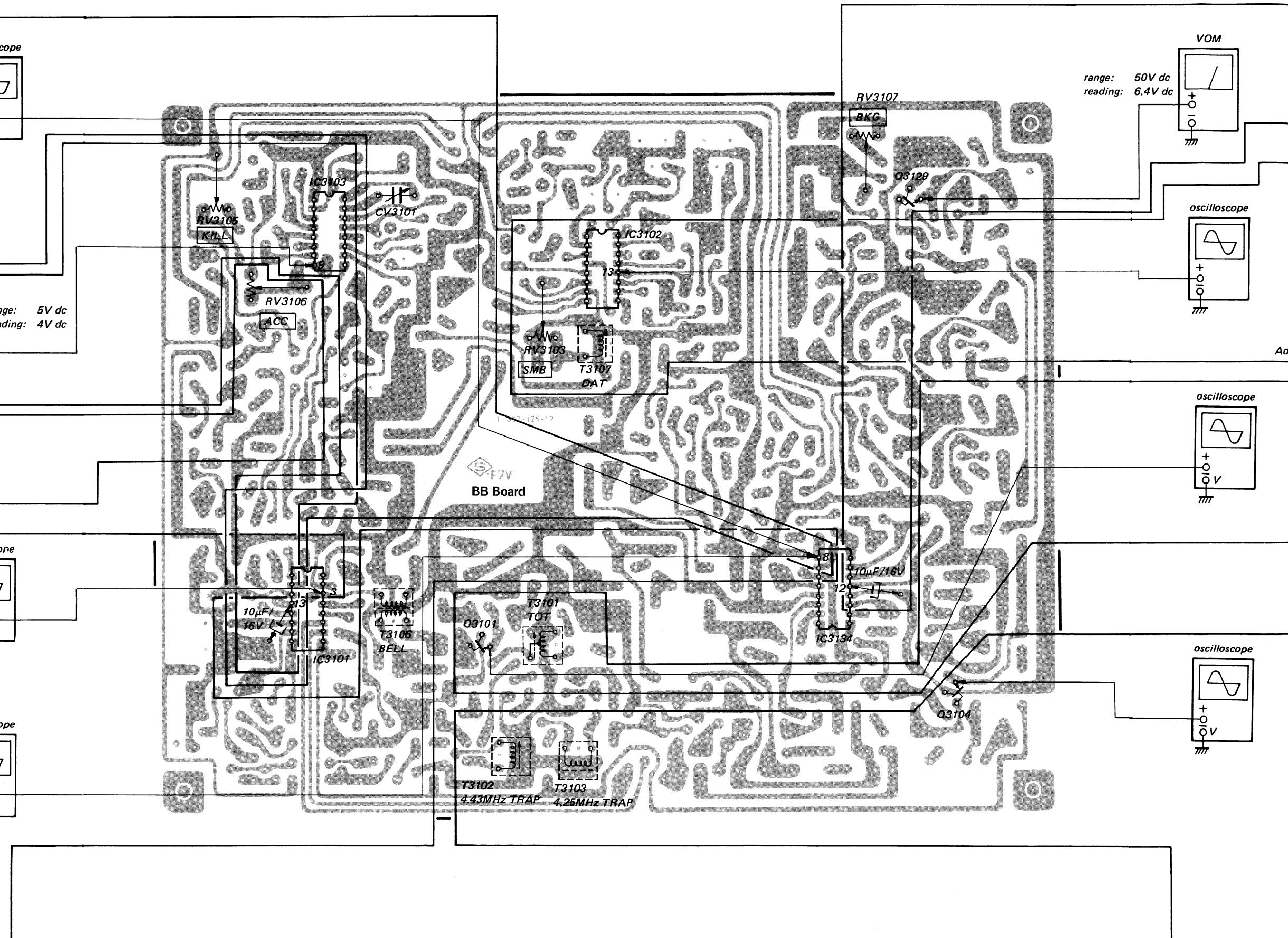
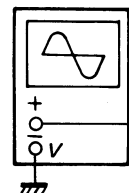
oscilloscope

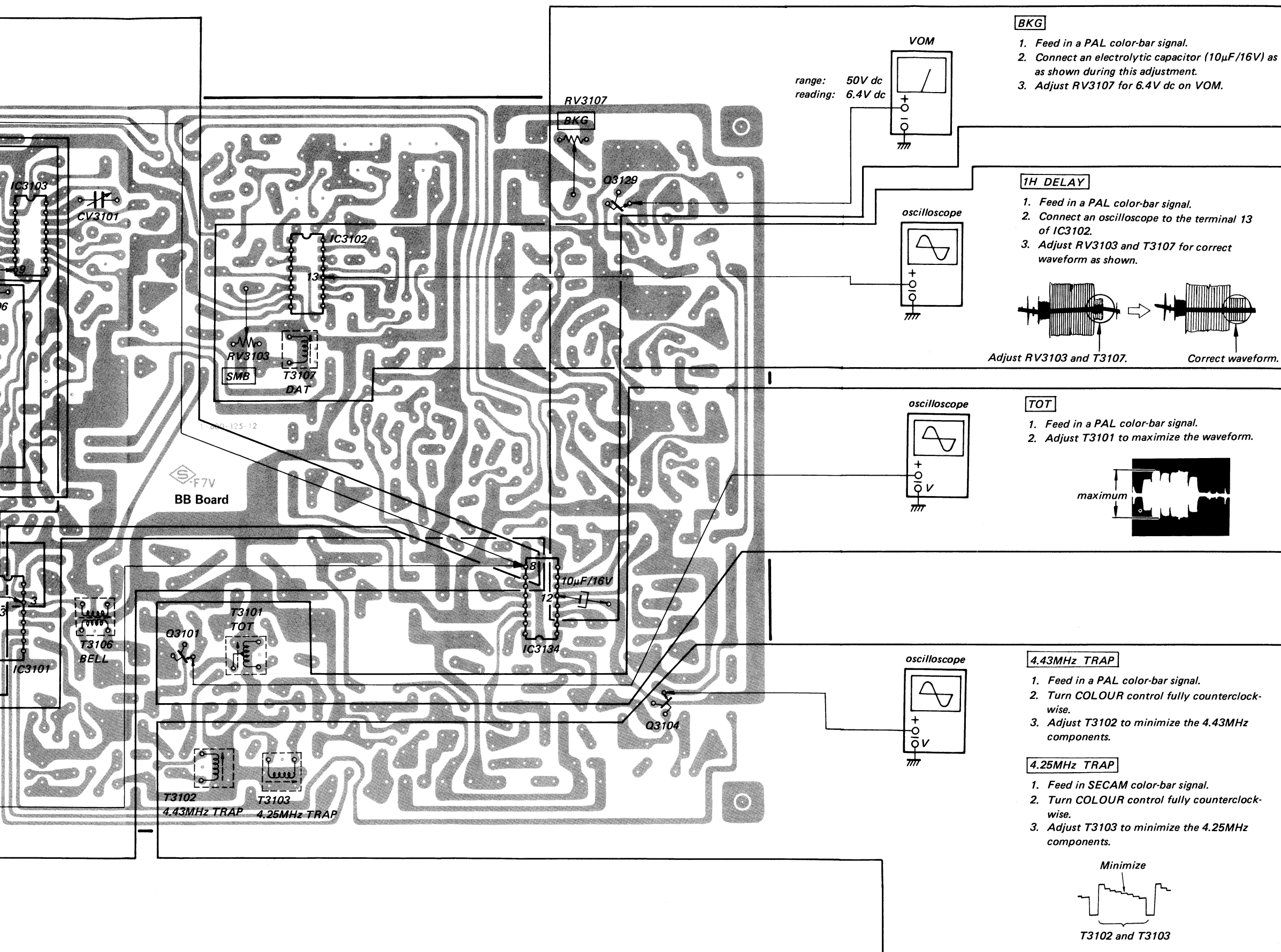


4. Connect an oscilloscope to the terminal 8 of IC3104.
5. Adjust T3106 to obtain a correct waveform.

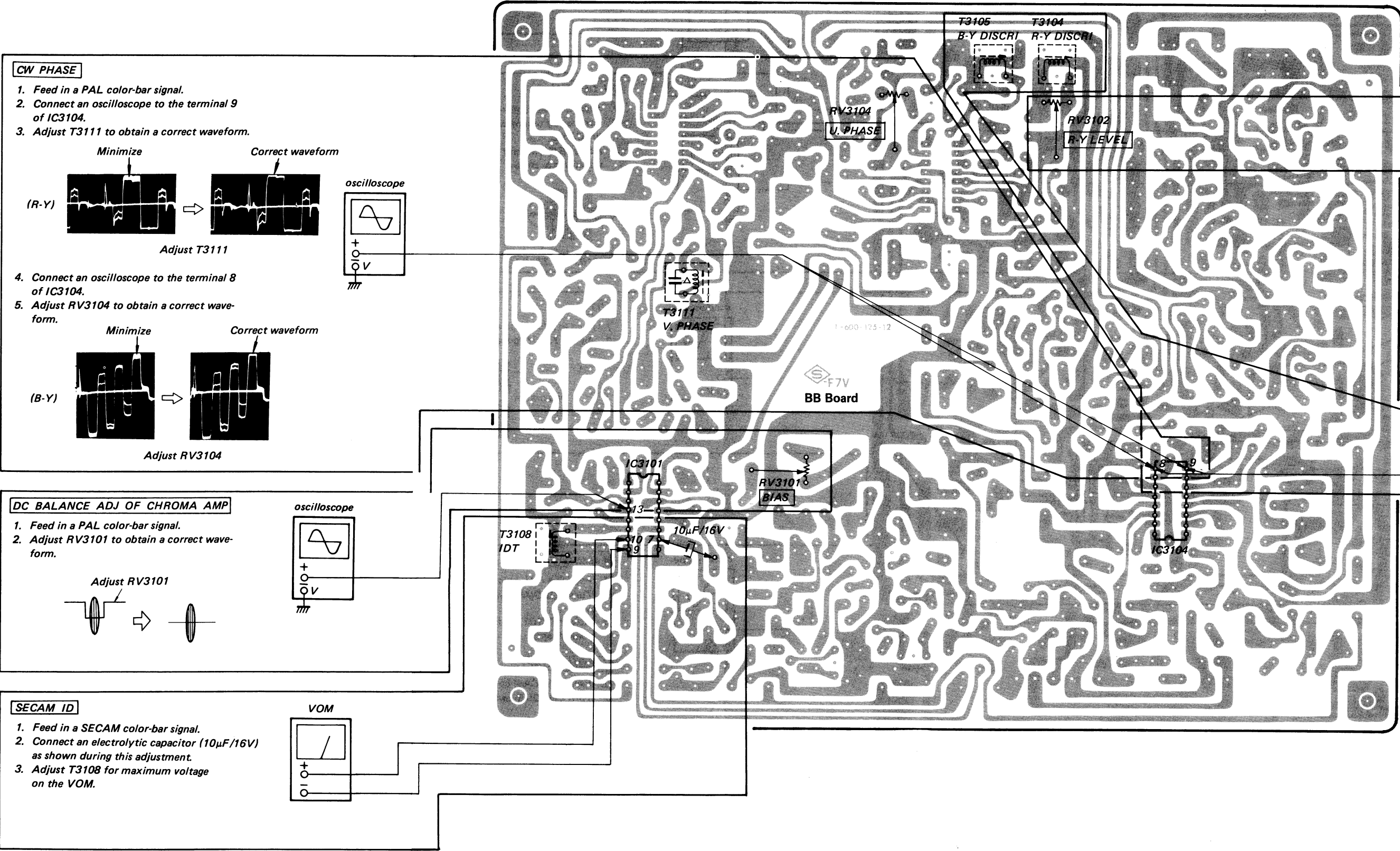


oscilloscope



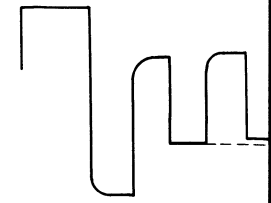


4.4. BB ADJUSTMENTS

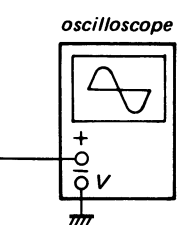
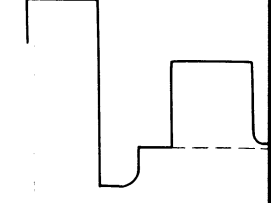


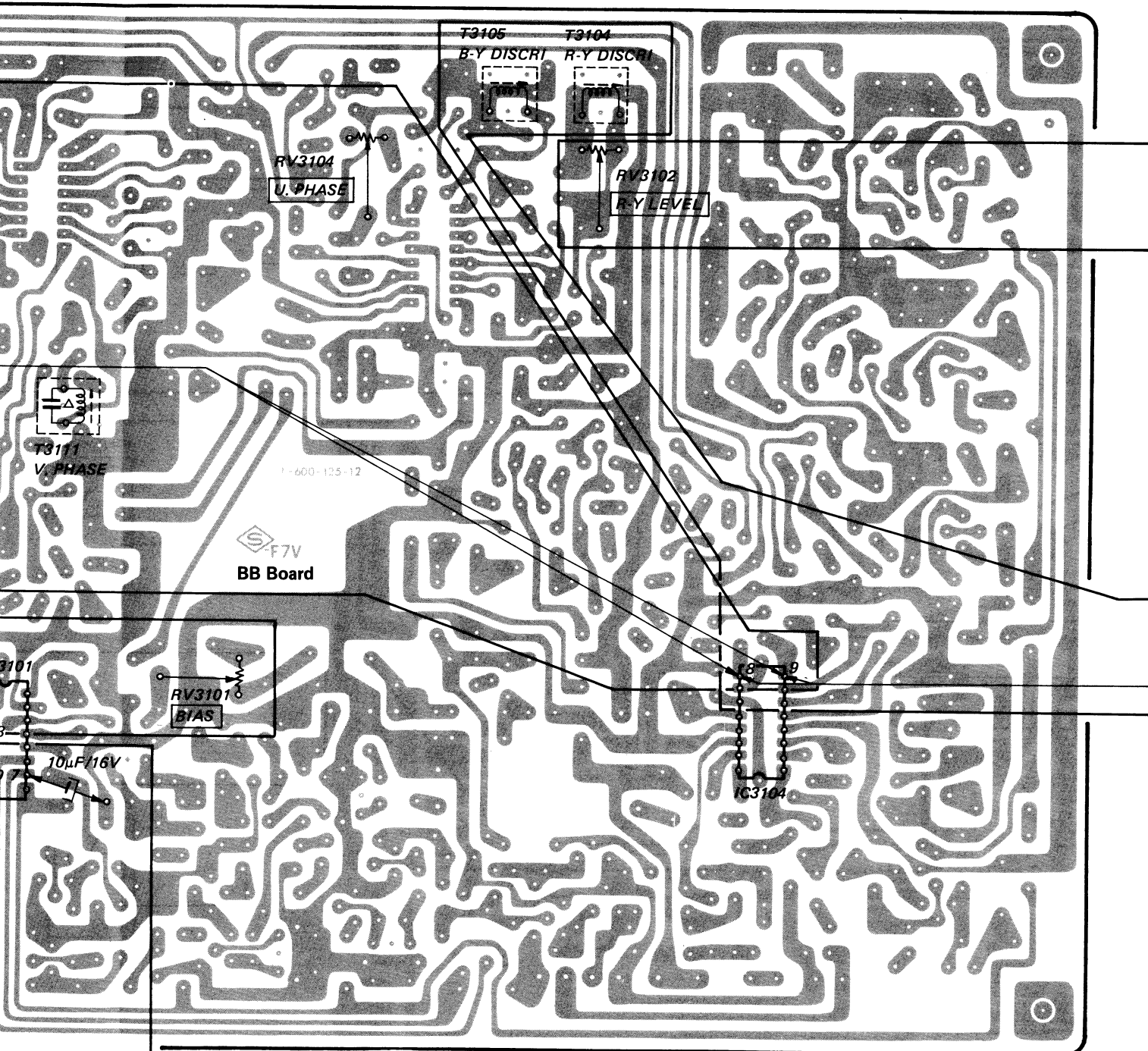
R-Y DISCRI LEVEL

1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the terminal 8 of IC3104.
3. Adjust COLOUR control to obtain the correct waveform.



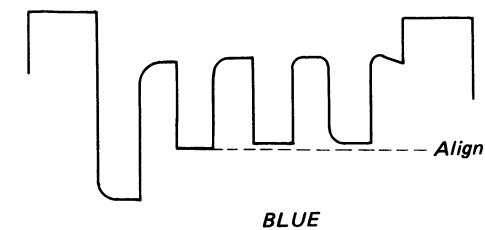
4. Connect an oscilloscope to the terminal 9 of IC3104.
5. Adjust RV3102 to obtain the correct waveform as shown.



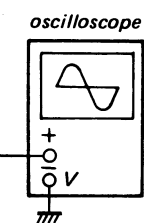
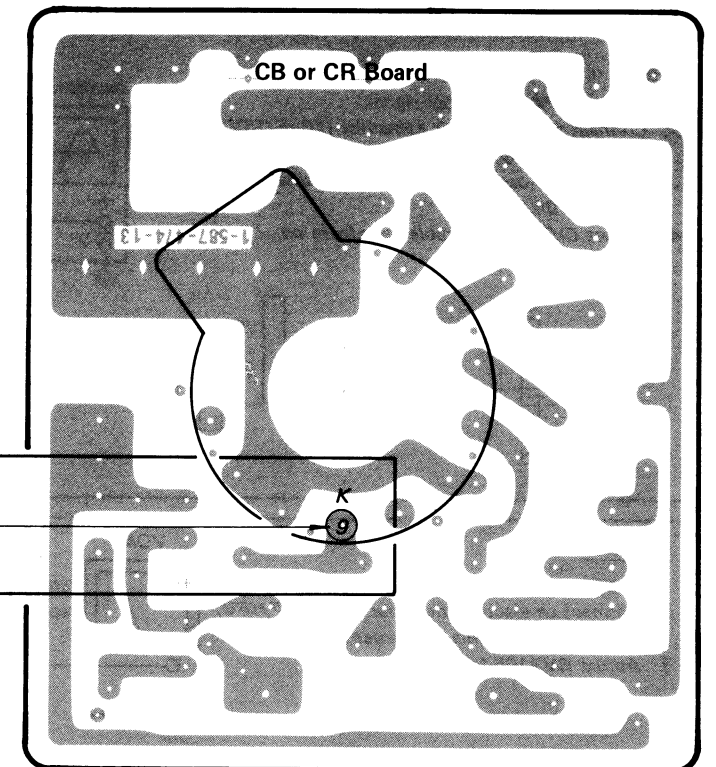
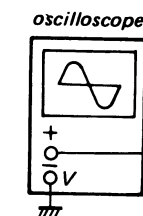
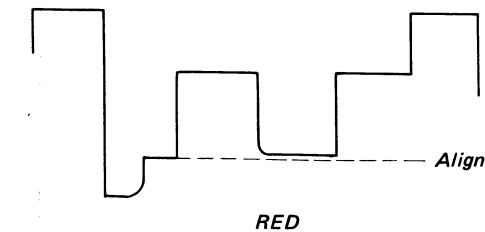


R-Y DISCRI LEVEL

1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the pin 9 on CB board.
3. Adjust COLOUR control (RV9203) to obtain the correct waveform as shown.

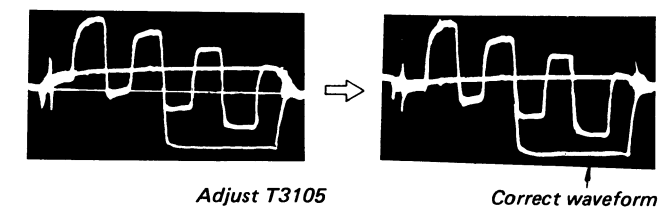


4. Connect an oscilloscope to the pin 9 on CR board.
5. Adjust RV3102 to obtain the correct waveform as shown.



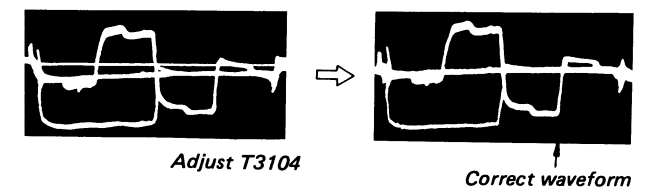
B-Y DISCRIMINATOR

1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the terminal 8 of IC3104.
3. Adjust T3105 to obtain a correct waveform as shown.



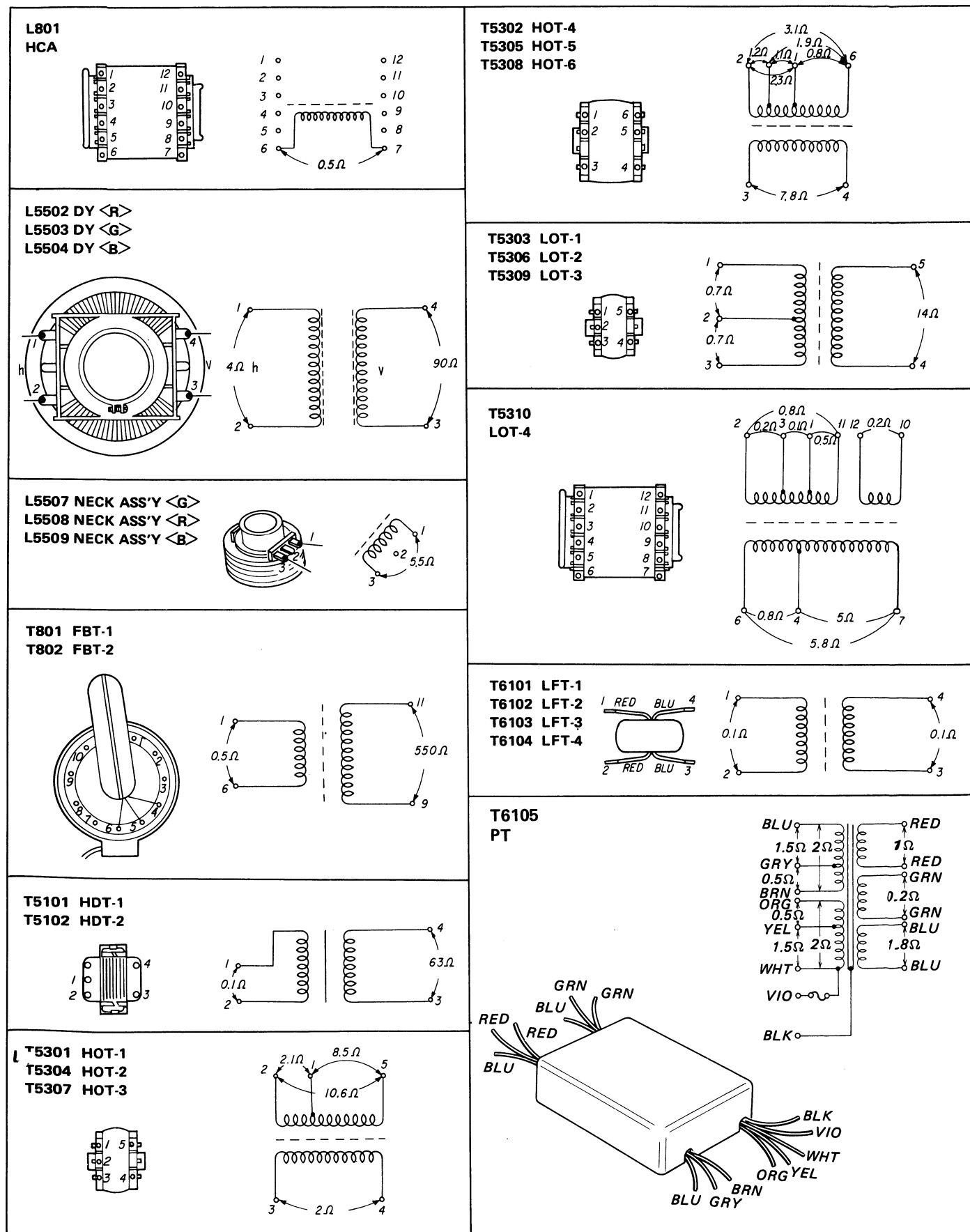
R-Y DISCRIMINATOR

1. Feed in a SECAM color-bar signal.
2. Connect an oscilloscope to the terminal 9 of IC3104.
3. Adjust T3104 to obtain a correct waveform as shown.



SECTION 5 DIAGRAMS

5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS



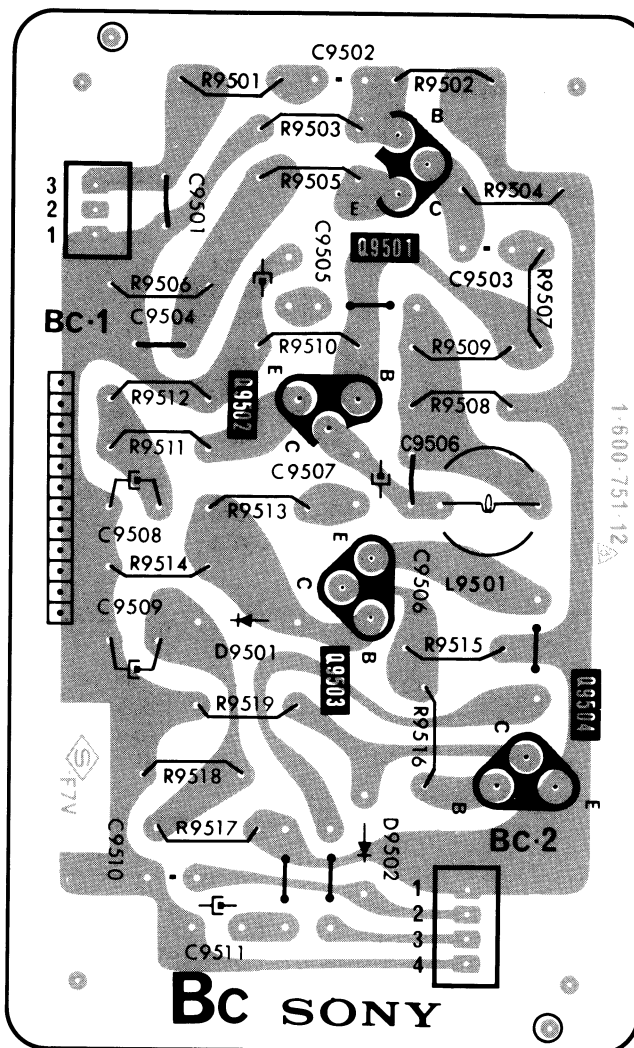
• DC resistance measurements shown with coil and transformers disconnected from circuit.

5-2. MOUNTING AND SCHEMATIC DIAGRAMS

Note: All mounting diagrams shown on the conductor side.

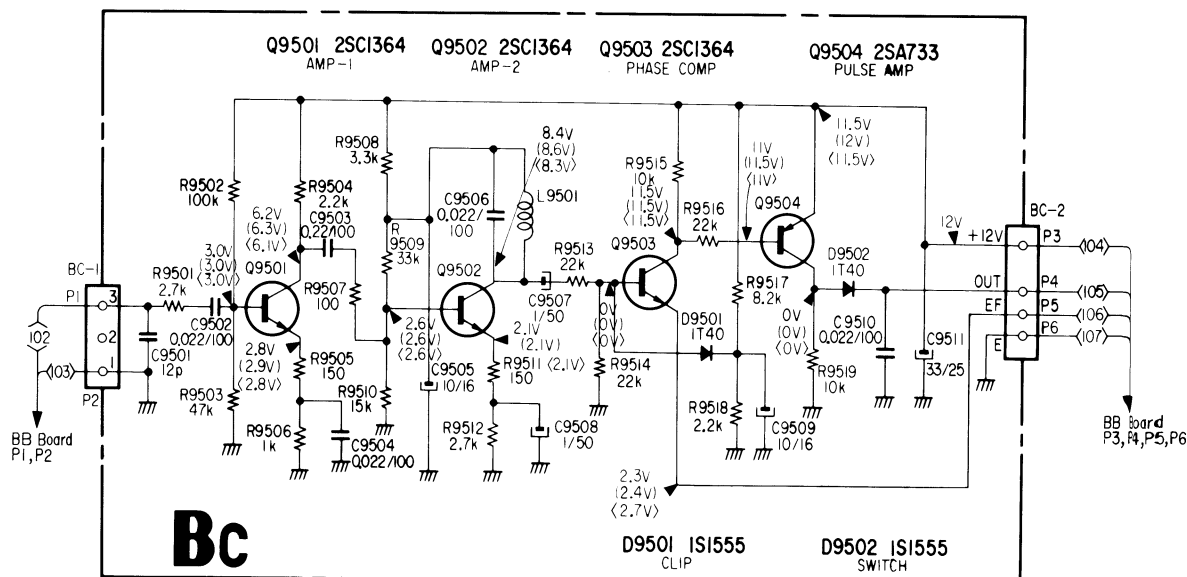
MOUNTING DIAGRAM

— BC Board —



SCHEMATIC DIAGRAM

— BC Board —



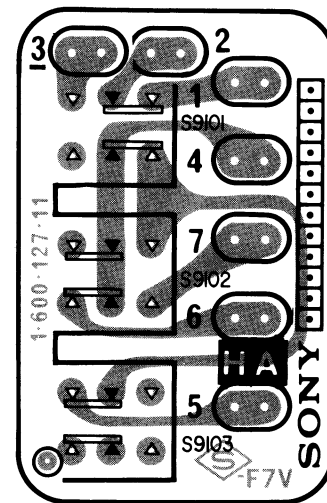
[COUSTOMER
CONTROL]

HA

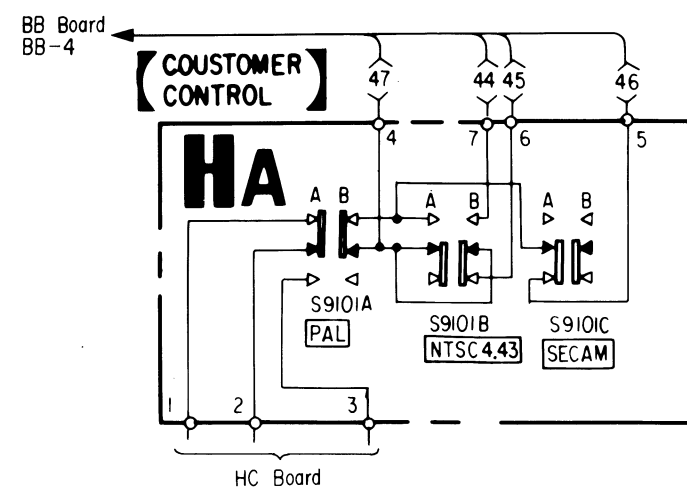
HB

[SCRN VOL]

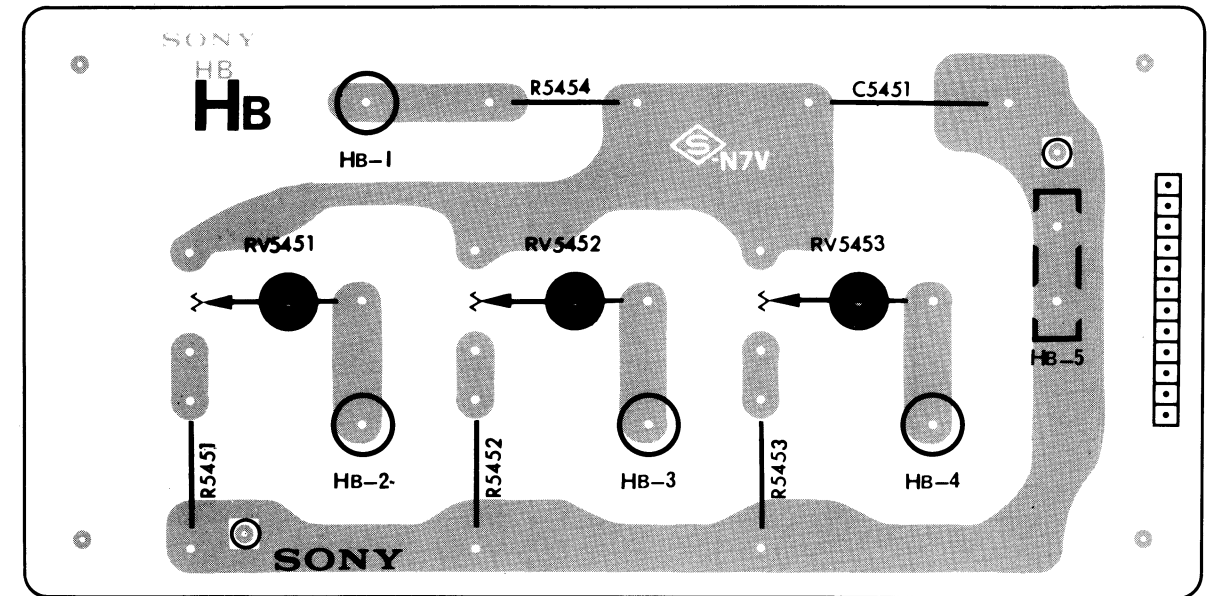
MOUNTING DIAGRAM
— HA Board —



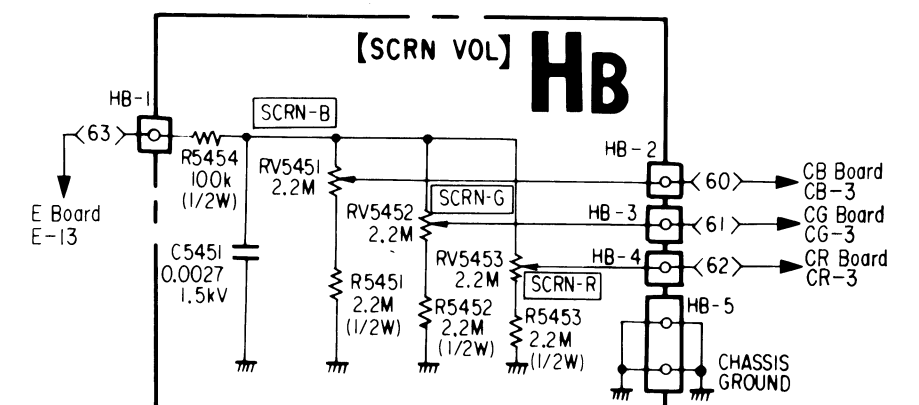
SCHEMATIC DIAGRAM
— HA Board —



MOUNTING DIAGRAM
— HB Board —



SCHEMATIC DIAGRAM
— HB Board —



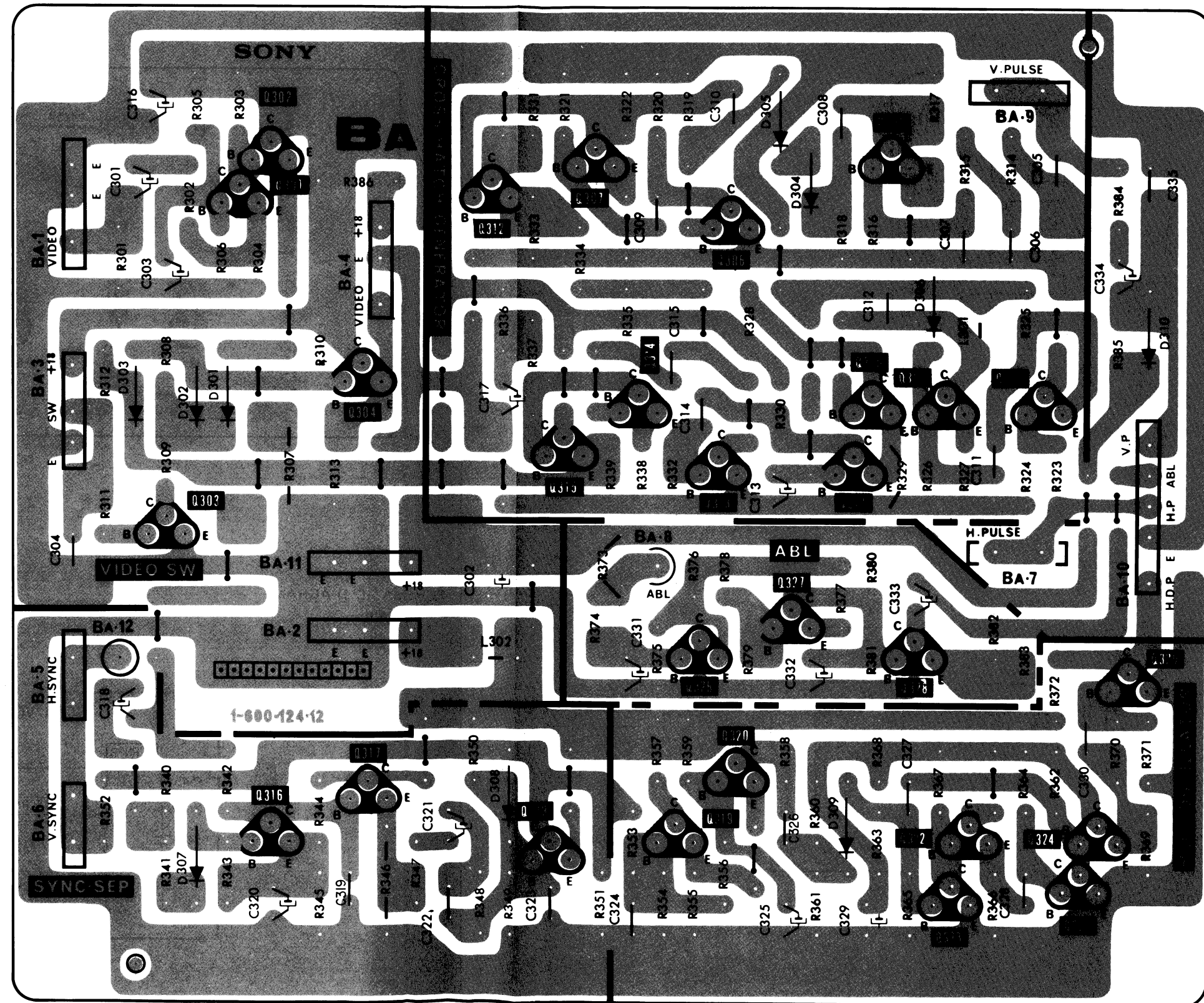
VIDEO AMP, SYNC SEP
HATCH OSC/AMP, ABL, H-D-P

BA

BA

MOUNTING DIAGRAM
— BA Board —

IC, Q	D
302	305
307,305	
301,312	304
306	
	306
	310
304	
314,310	303
309,308	302
	301
315	
313,311	
	303
327	
326,328	
325	
	320
317	308
316	309
319	
322,324	307
318	
323,321	
IC, Q	D

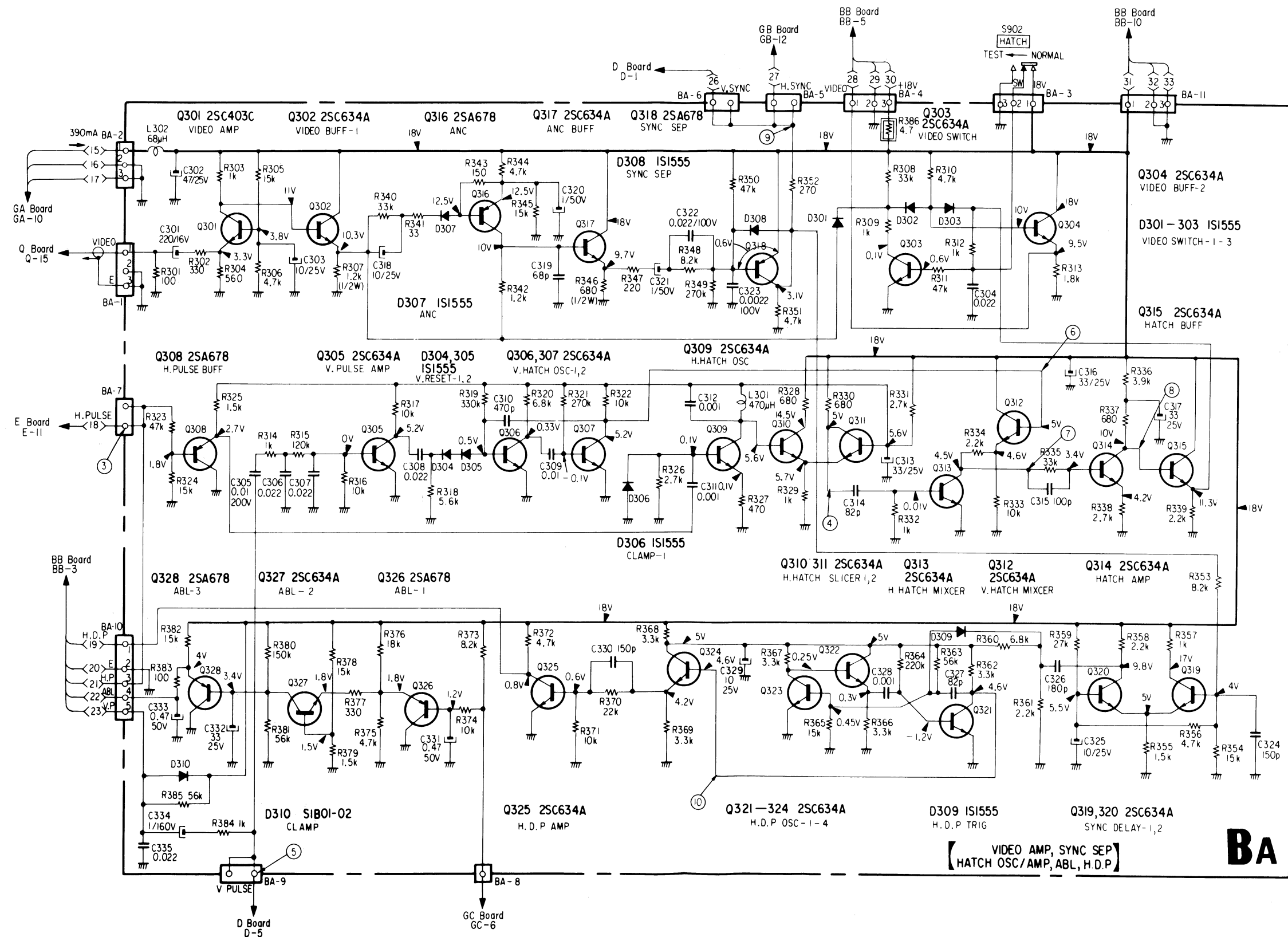


BA

BA

VIDEO AMP, SYNC SEP
HATCH OSC/AMP, ABL, H-D-P

SCHEMATIC DIAGRAM
— BA Board —

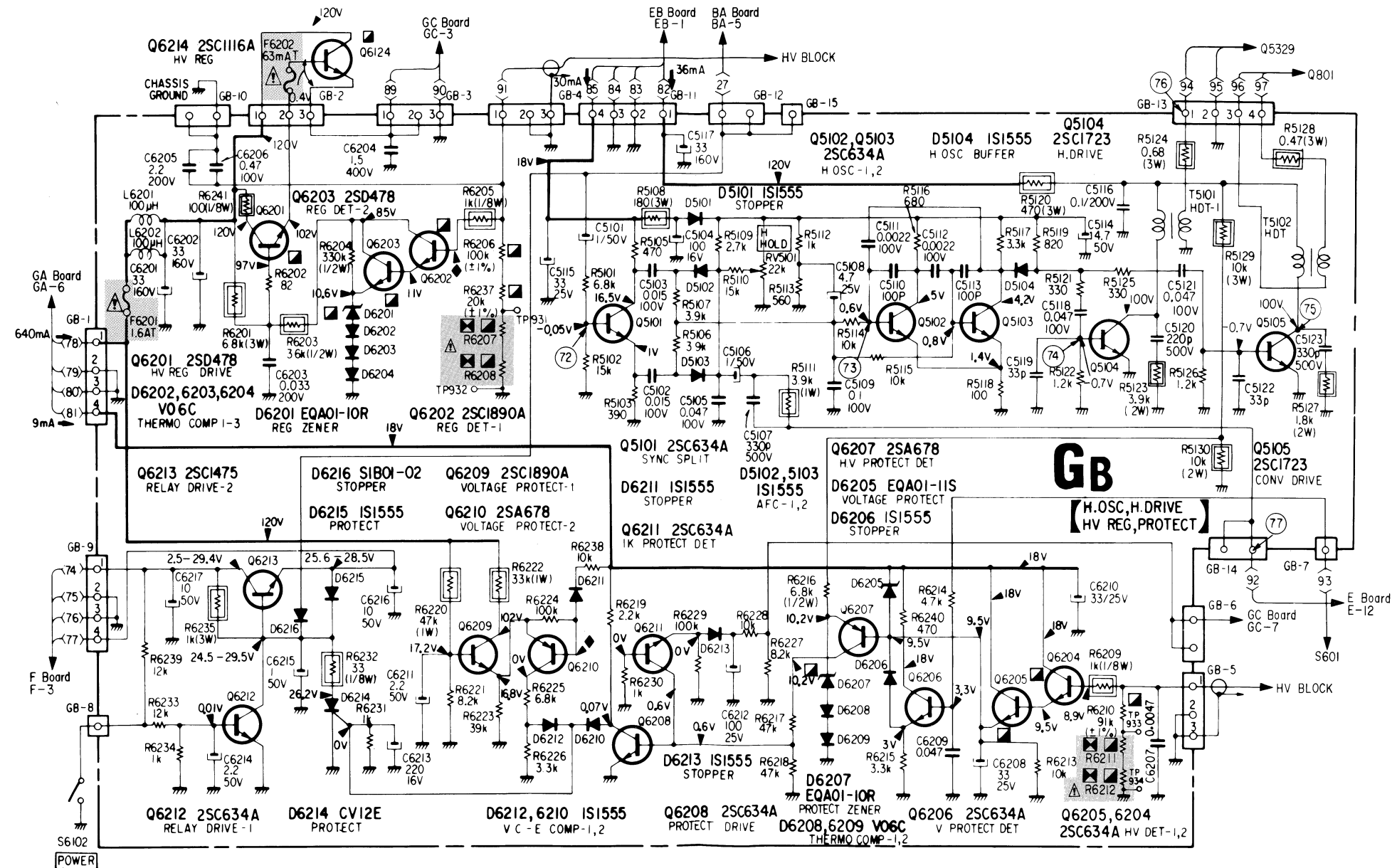


GB

GB

H. OSC, H. DRIVE
HV. REG, PROTECT

SCHEMATIC DIAGRAM
— GB Board —



Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

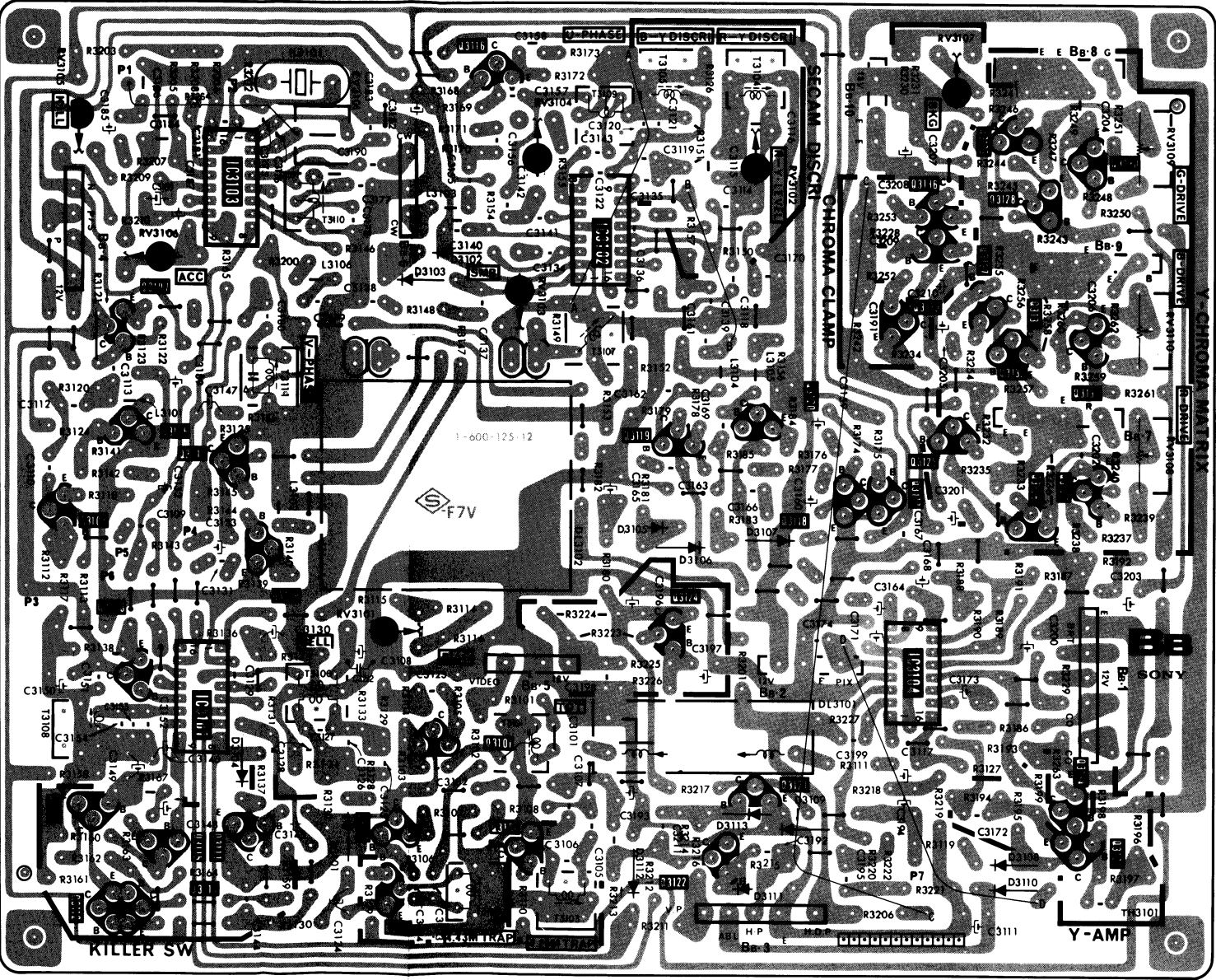
CHROMA, Y AMP, SYSTEM SW
KILLER SW, APC, CW AMP
R-G-B OUT, 12V REG

BB

BB

MOUNTING DIAGRAM
- BB Board -

IC, Q	D	ADJ
3116		RV3107
		RV3105
3129		RV3109
3130		RV3104
		RV3102
3128		
3136		
3137	3102	RV3106
	3103	RV3103
3135, 3131		
3107		RV3110
3133		
3132		
3120		
3106		
3119, 3125		RV3108
3110		
3127		
3118, 3117		
3105	3105	
3126	3107	
	3106	
3109		
		RV3101
3124		
3108		
IC3101		
3101		
3123	3104	
3134		
3114	3113	
3111, 3102	3101	3109
3104	3121	
3115	3122	
3103	3112, 3110	3108
3112, 3113	3111	
IC, Q	D	ADJ

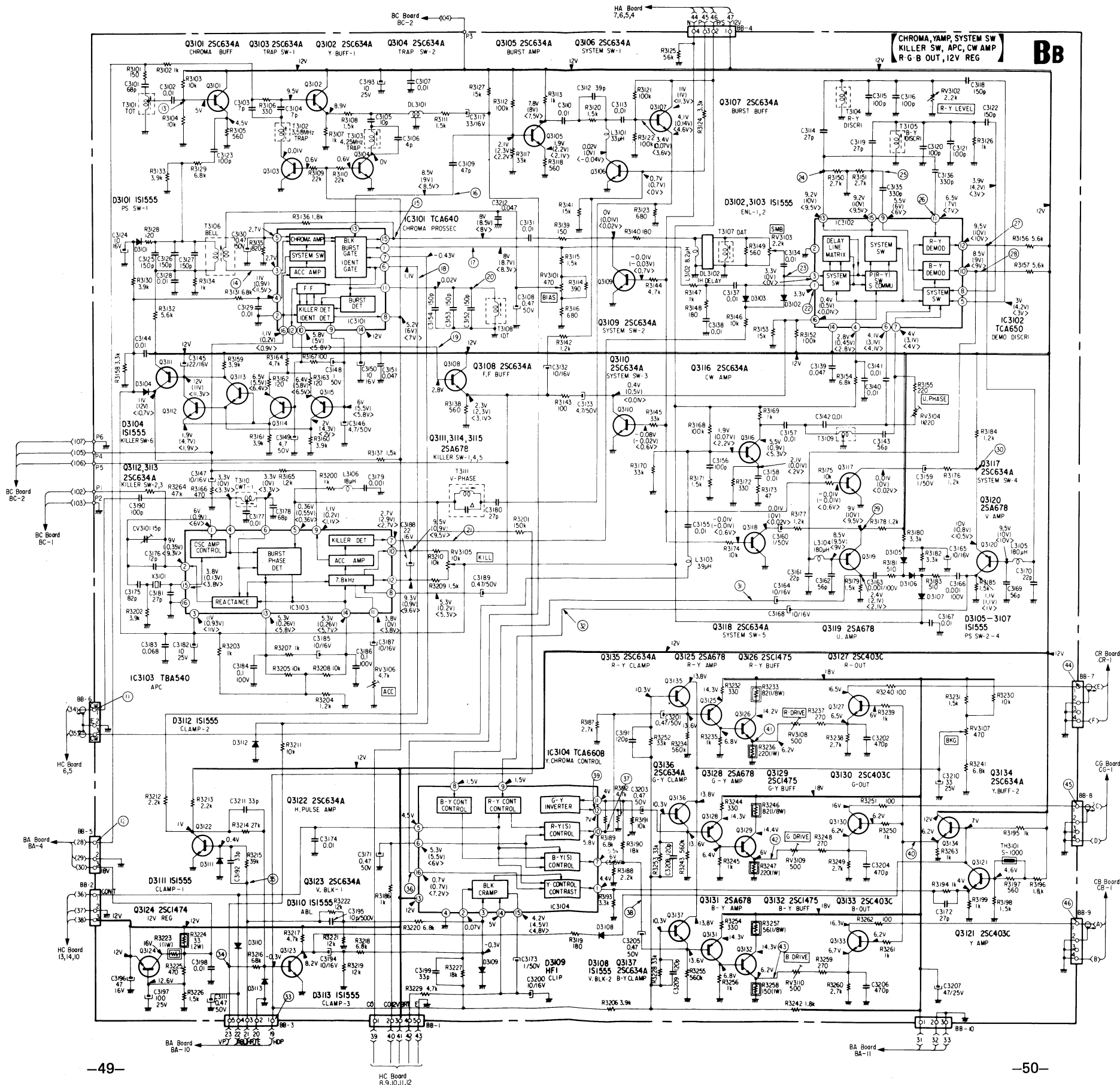


BB

BB

CHROMA, Y AMP, SYSTEM SW
KILLER SW, APC, CW AMP
R-G-B OUT, 12V REG

SCHEMATIC DIAGRAM
— BB Board —



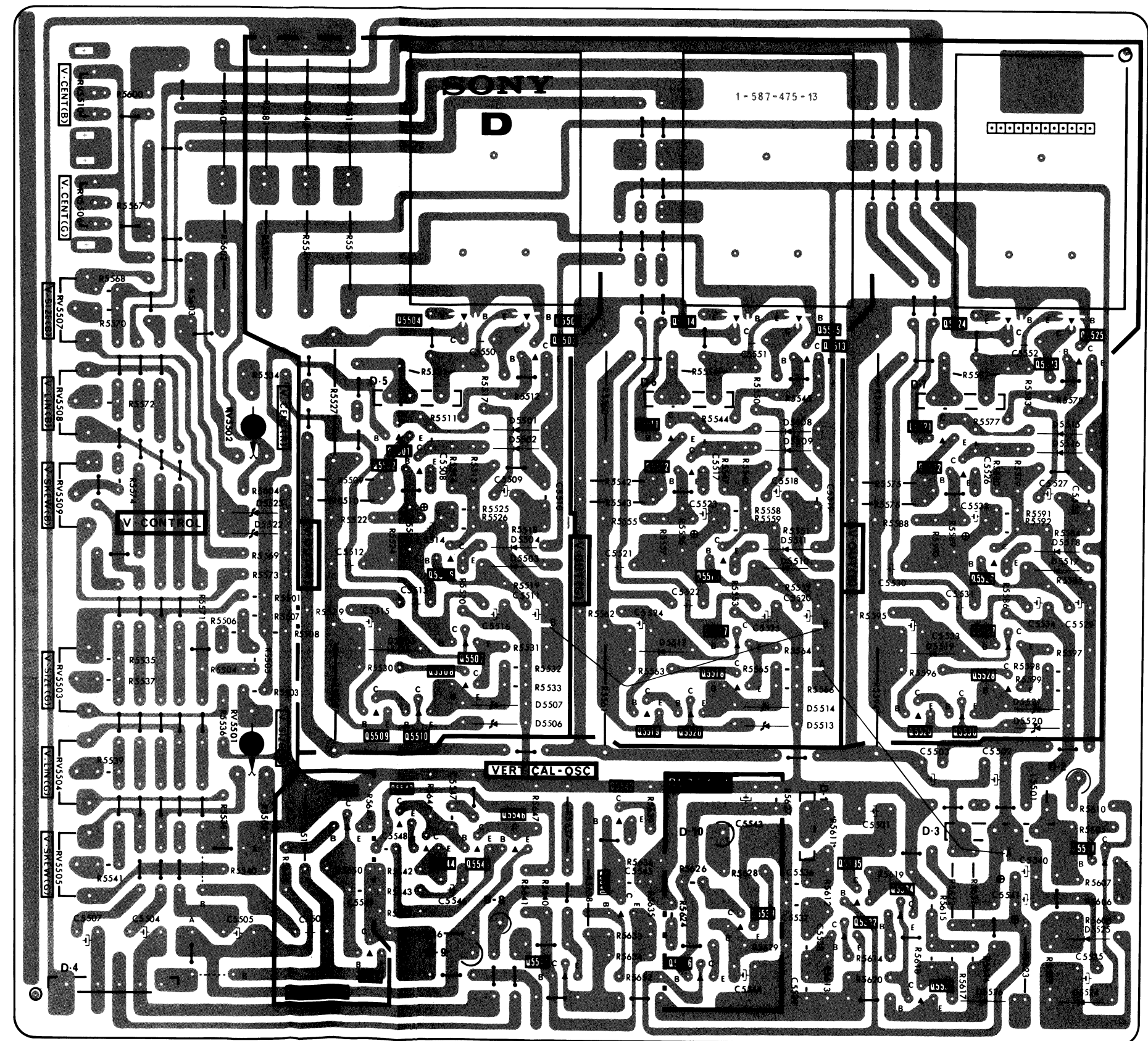
V. OSC, V. CENT
V. OUT, PARABOLA

D

D

MOUNTING DIAGRAM
- D Board -

IC, Q	D	ADJ
		RV5510
		RV5506
5504,5505 5514,5515 5524,5525 5523		RV5507
5503,5513		
		RV5508
5501,5511 5521	5501,5508 5515	RV5502
5502,5512 5522	5502,5509 5516	
		RV5509
5523		
5522		
5506,5516 5526	5504,5511 5518 5503,5510 5517	
5507,5517 5527	5505,5512 5519	
5508,5518 5528		RV5503
5509,5519 5529,5530	5507,5514 5521 5506,5513 5520	
		RV5501
		RV5504
5547,5543 5542		
5544,5545 5546 5531		RV5505
5535		
5540,5534 5539 5532	5525	
5548		
5541,5536 5533	5526,5524	
IC, Q	D	ADJ



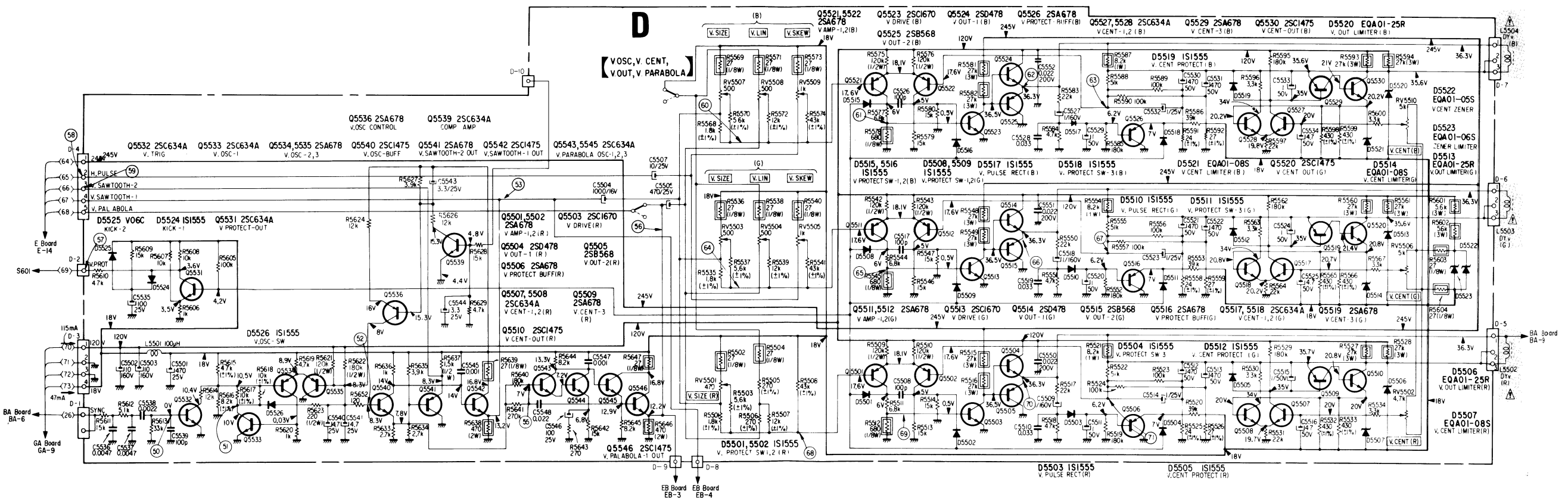
D

D

[V. OSC, V. CENT
V. OUT, V. PARABOLA]

SCHEMATIC DIAGRAM

- D Board -



Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

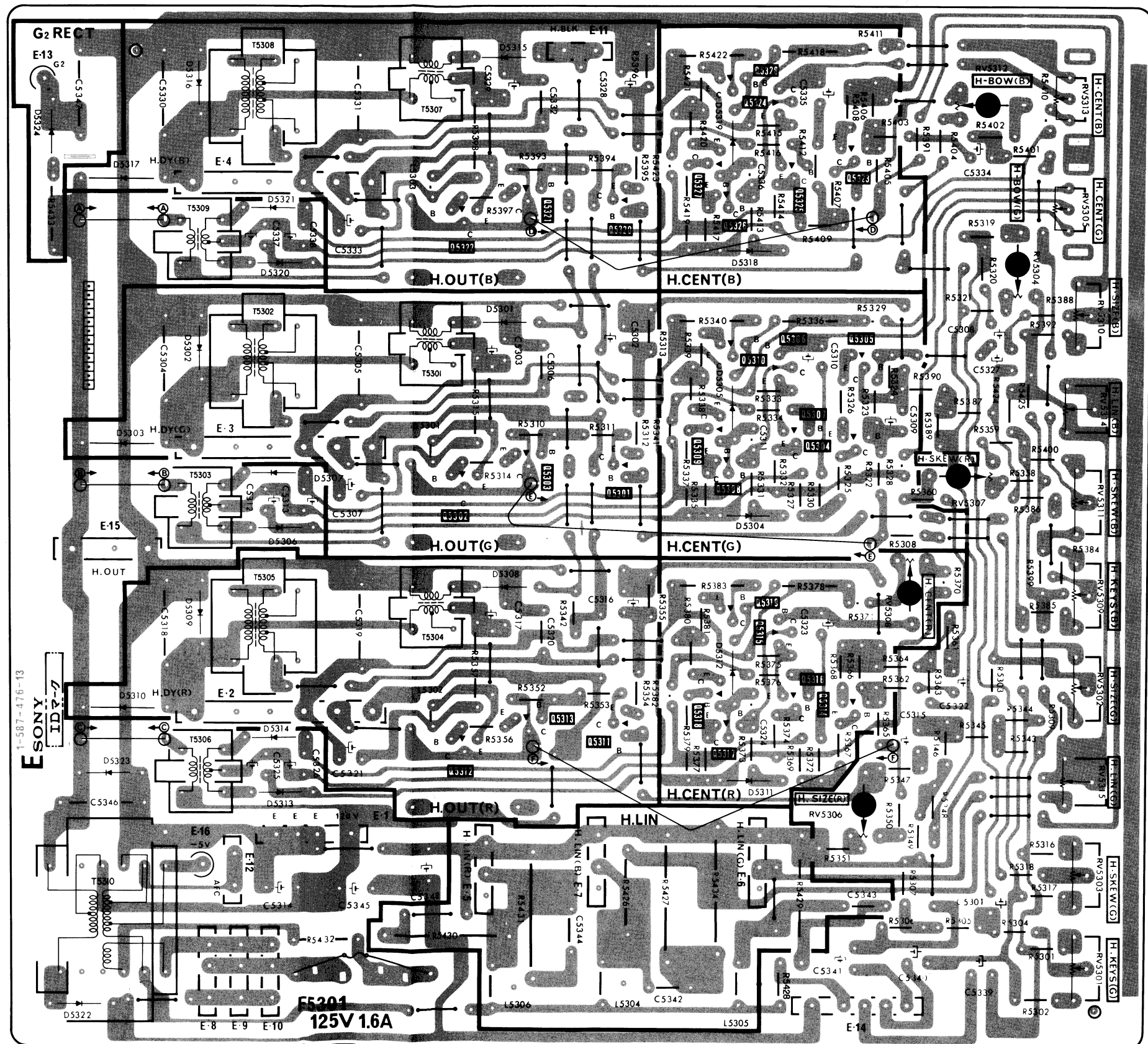
H. CENT, H. OUT
PIN AMP, PIN OUT

E

E

MOUNTING DIAGRAM
- E Board -

IC, Q	D	ADJ
5315	5316	RV5313
5328	5316	RV5312
5324	5319	
5323	5317	
5327	5321	RV5305
5325	5318	RV5304
5321	5320	
5320, 5326	5301	RV5310
5322	5302	
5307	5305	RV5314
5309, 5304	5303	
5303	5307	RV5307
5301, 5308	5304	RV5311
5302	5306	
5308	5308	RV5308
5319	5309	RV5309
5315	5312	RV5302
5318, 5316	5310	
5314	5314	
5313, 5311	5313	RV5315
5317	5313	RV5306
5312		
5323		
5311		
5313		
5322		RV5303
		RV5301
IC, Q	D	ADJ



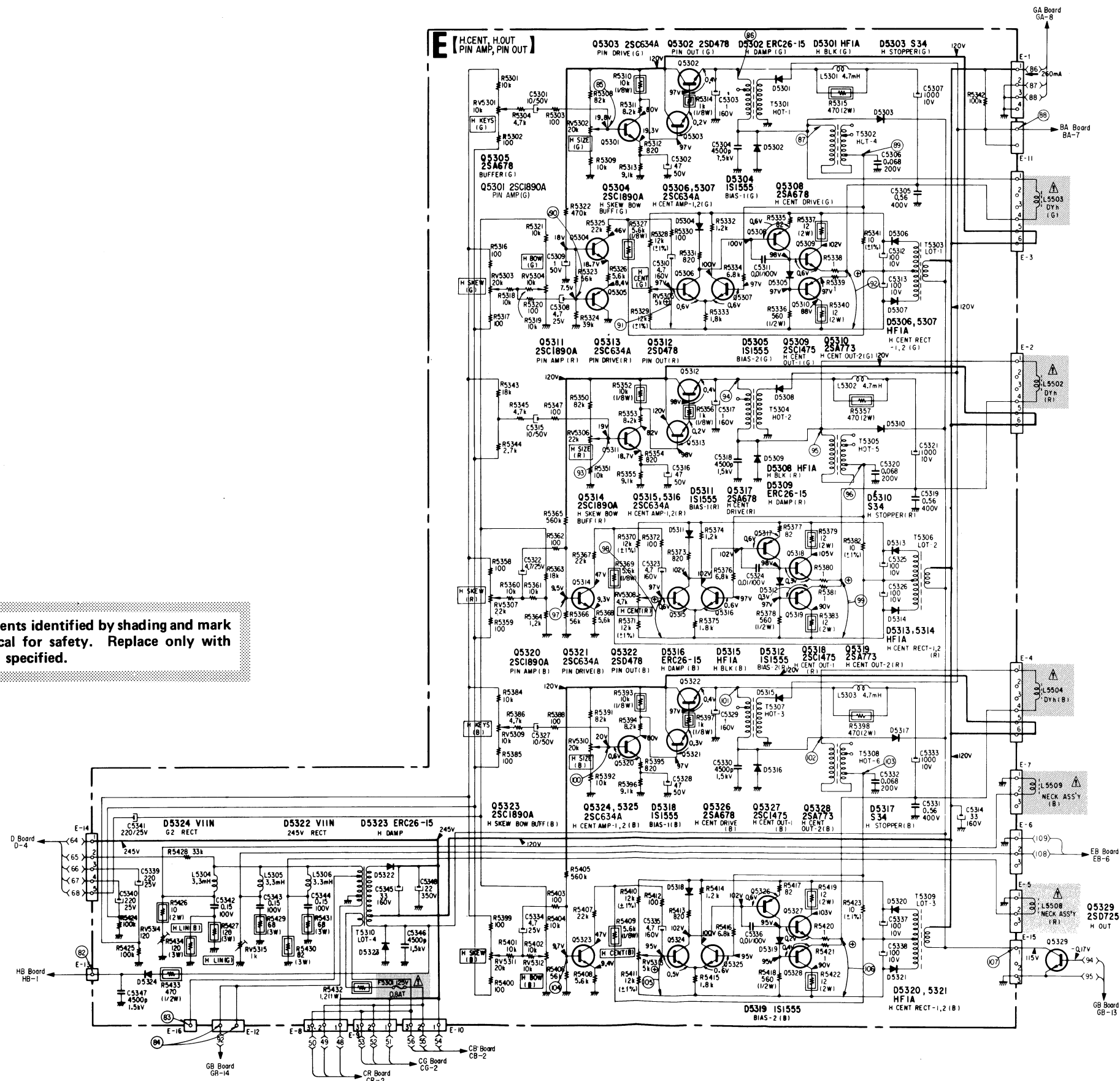
E

E

H. CENT, H. OUT
PIN AMP, PIN OUT

SCHEMATIC DIAGRAM
— E Board —

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.



[120V/18V REG]

GA

GA

MOUNTING DIAGRAM
— GA Board —

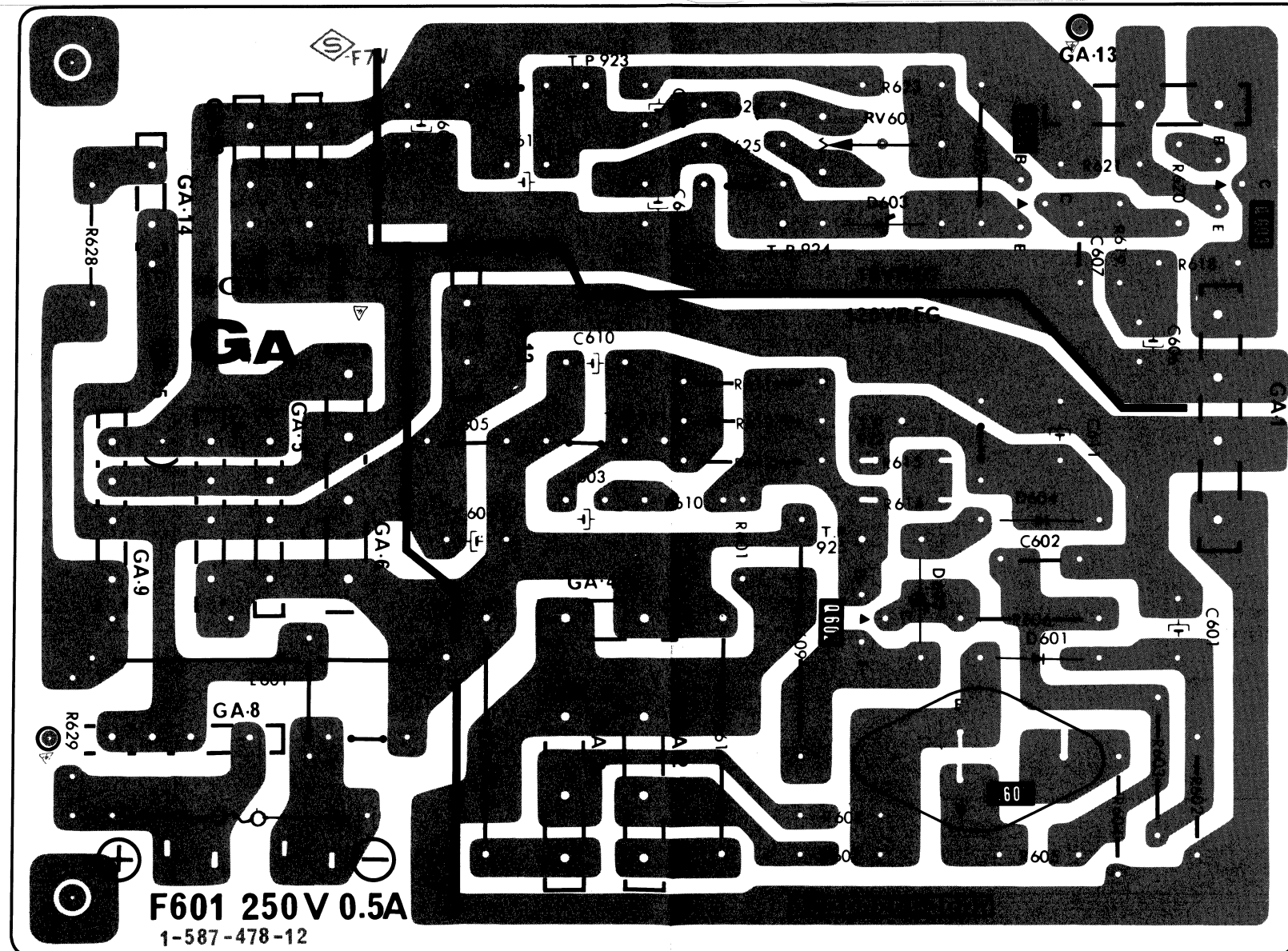
1

2

3

4

5



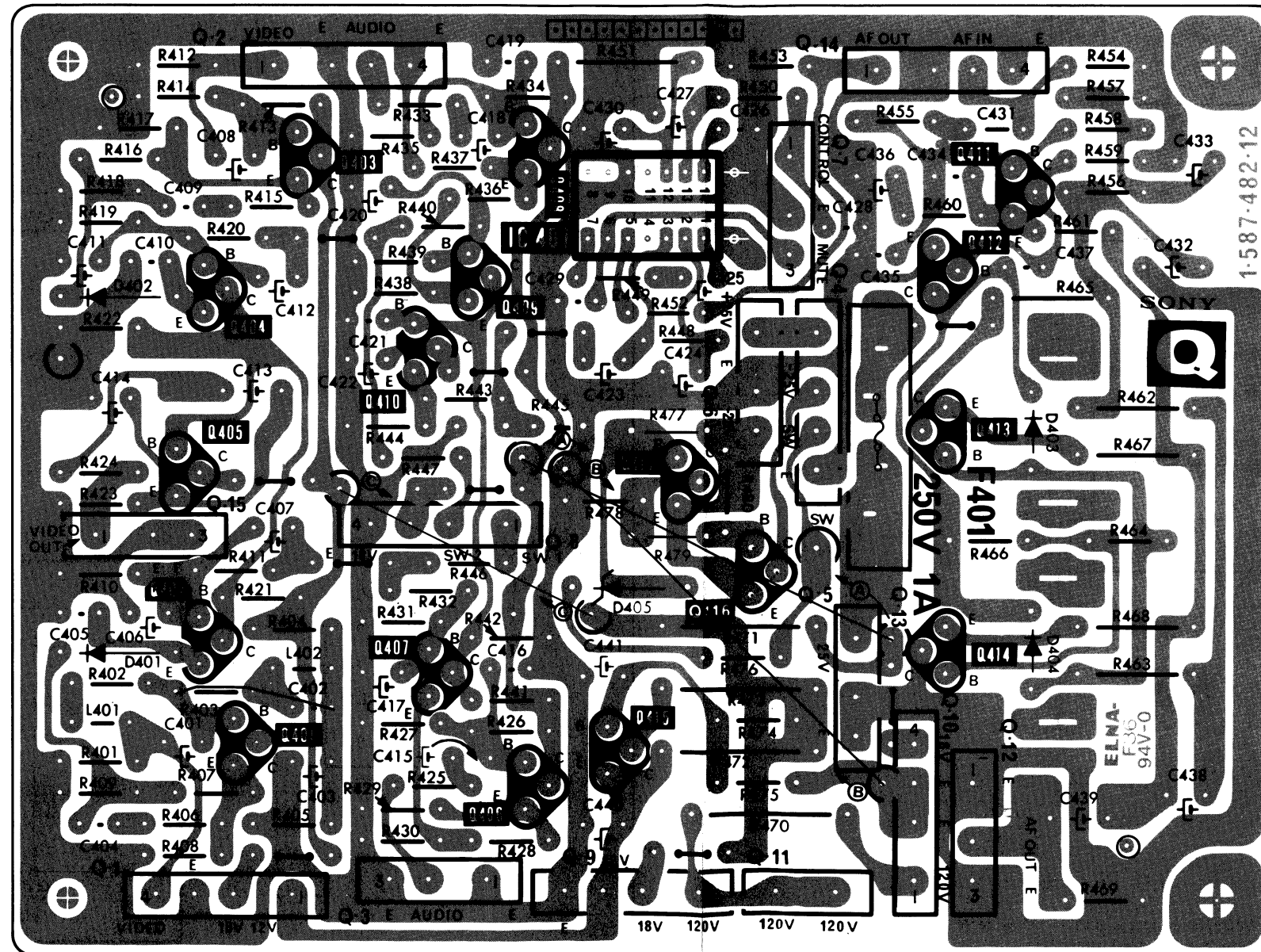
[AUDIO AMP]

VIDEO, AUDIO SW
AUDIO OUT

Q

Q

MOUNTING DIAGRAM
- Q Board -

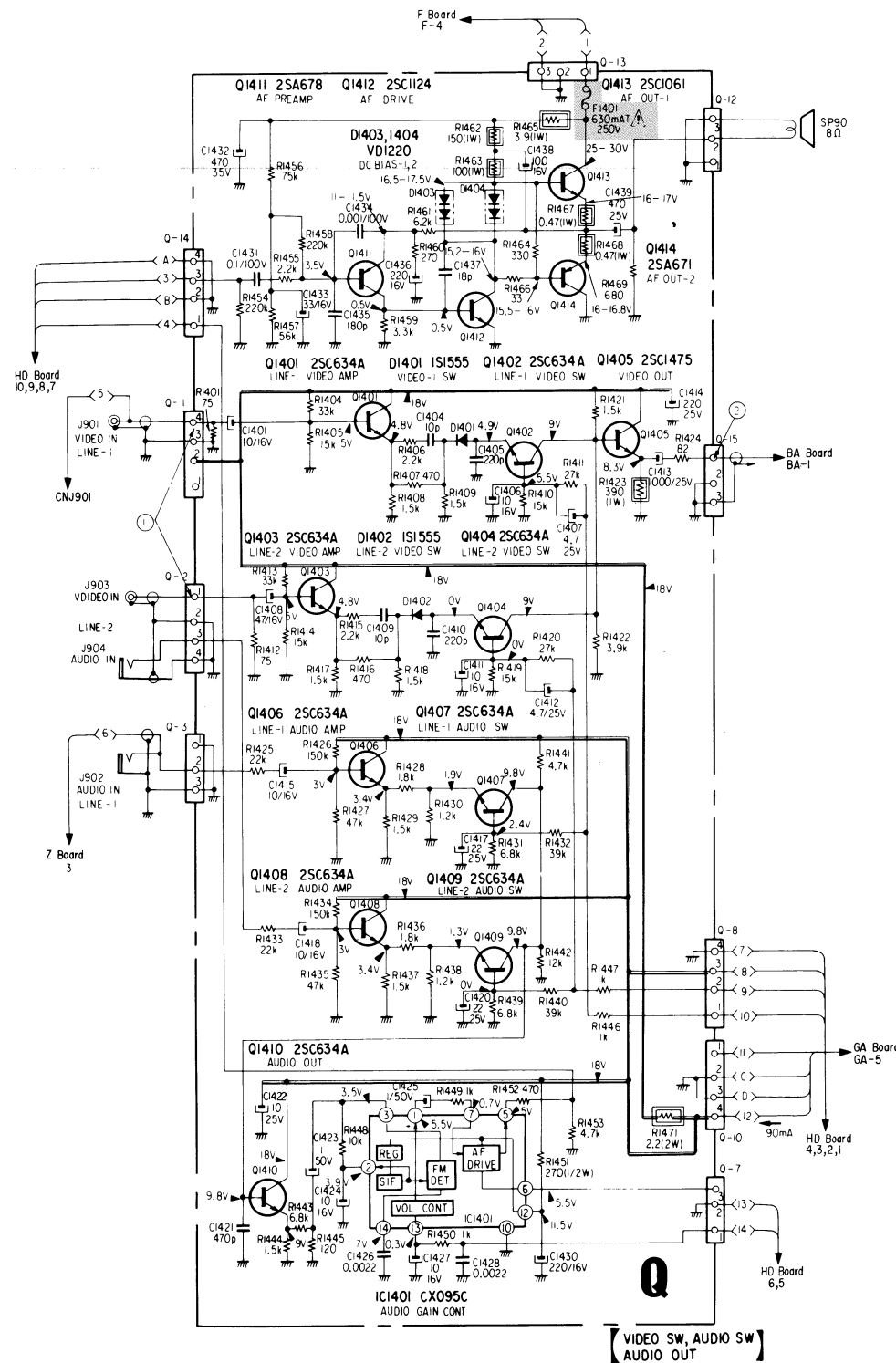


IC, Q	D
408	
403	
411	
IC401	
412	
409	
404	402
410	
413	403
405	
402	
414	401
407	404
401	
406	
IC, Q	D

VIDEO SW, AUDIO SW
AUDIO OUT

Q

SCHEMATIC DIAGRAM
- Q Board -



Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

NOTES ON SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. p : μF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. k : 1000 Ω , M : 1000k Ω
- \square : nonflammable resistor.
- Δ : internal component.
- \square : panel designation.

The components identified by \square in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

When replacing components identified by \square make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by \square and repeat the adjustment until the specified value is achieved.

(Refer to R6211/R6212 Adjustment, R6207/R6208 Adjustment and R614/R615 Adjustment.)
(On Page 28)
(On Page 26)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (\square)	Adjustment
DC851 R807, R808, R810 T801, T802 C802, C803, C804, C805 Q6204, Q6205, D6207 R6207, R6208, R6210, R6211 R6212	R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT
R805, R806, R809 Q6201, Q6202, Q6203, Q6214 D6201, R6206, R6237	R6207/R6208 ADJUSTMENT
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

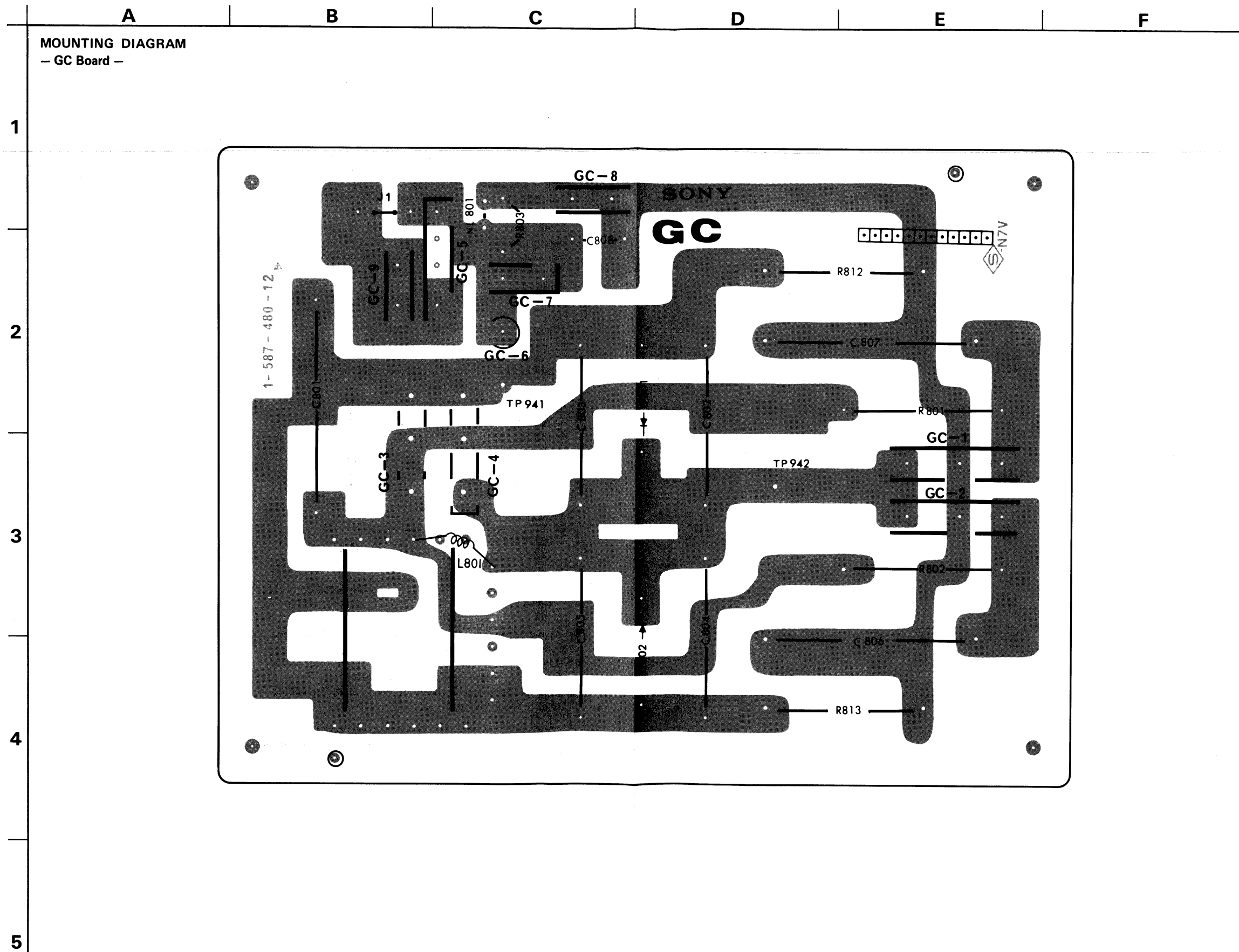
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Reference numbers of the Q board differ from those indicated on the printed circuit board of the set. Read the reference numbers of the Q board by adding 1000 to those indicated.

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

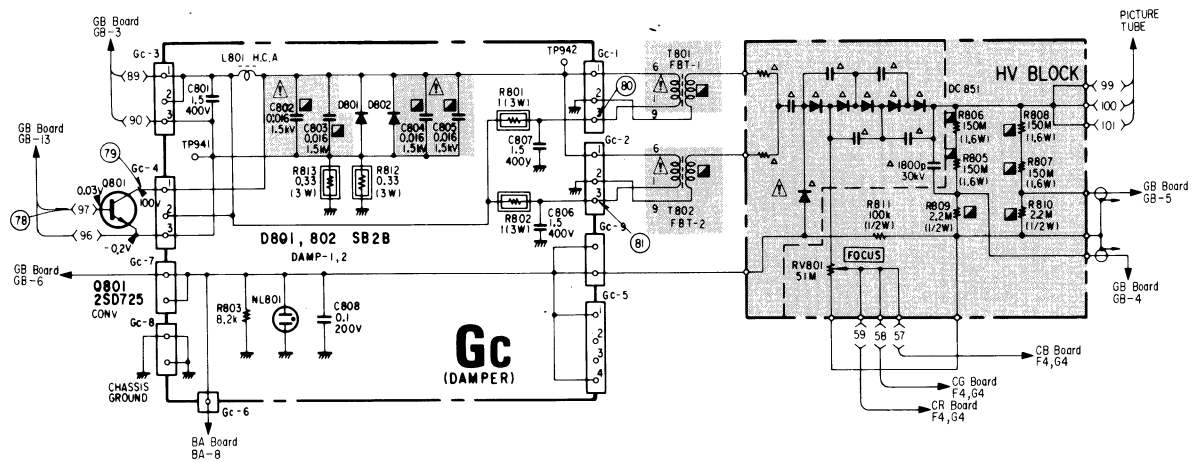
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- \odot : adjustable without removing cabinet.
- \square : adjustment for repair.
- Readings are taken with a color-bar video signal input.
- Voltage variations may be noted due to normal production tolerances.
- --- : B+ bus.
- \blacklozenge : When this portion is touched with the probe of a VOM, the set will be turned off.
- Voltages in Q board are taken with the LINE switch set to 1.
- Voltages in BB board are taken with PAL color-bar video signal input.
() : SECAM
< > : NTSC 4.43MHz

[DAMPER] GC GC




MOUNTING DIAGRAM
— GC Board —




SCHEMATIC DIAGRAM
— GC Board —




Note:

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
 - When replacing components identified by  make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.
- (Refer to R6211/R6212 Adjustment and R6207/R6208 Adjustment on page 28.)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment
T801, T802, HV BLOCK	R6211/R6212
C802, C803, C804, C805	R6207/R6208
R807, R808, R809, R810	ADJUSTMENT

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

EB

A

B

C

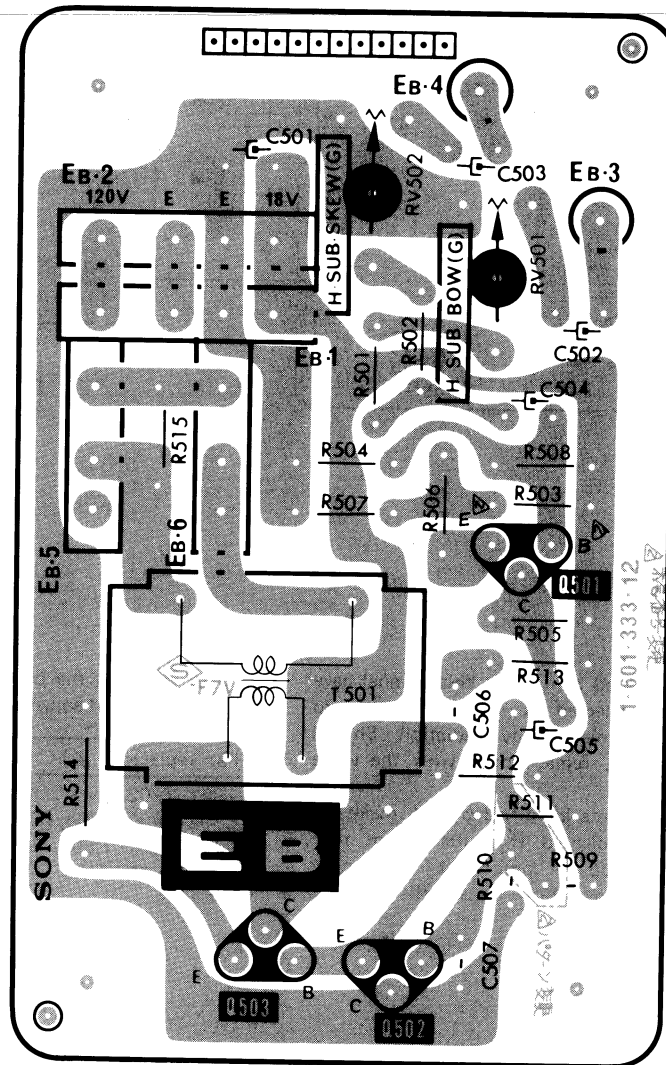
D

MOUNTING DIAGRAM

— EB Board —

KP-5010PS : Serial No. up to 11,100

KP-7210PS : Serial No. up to 11,300



[REGISTRATION
COMPENSATOR]

EB

HC

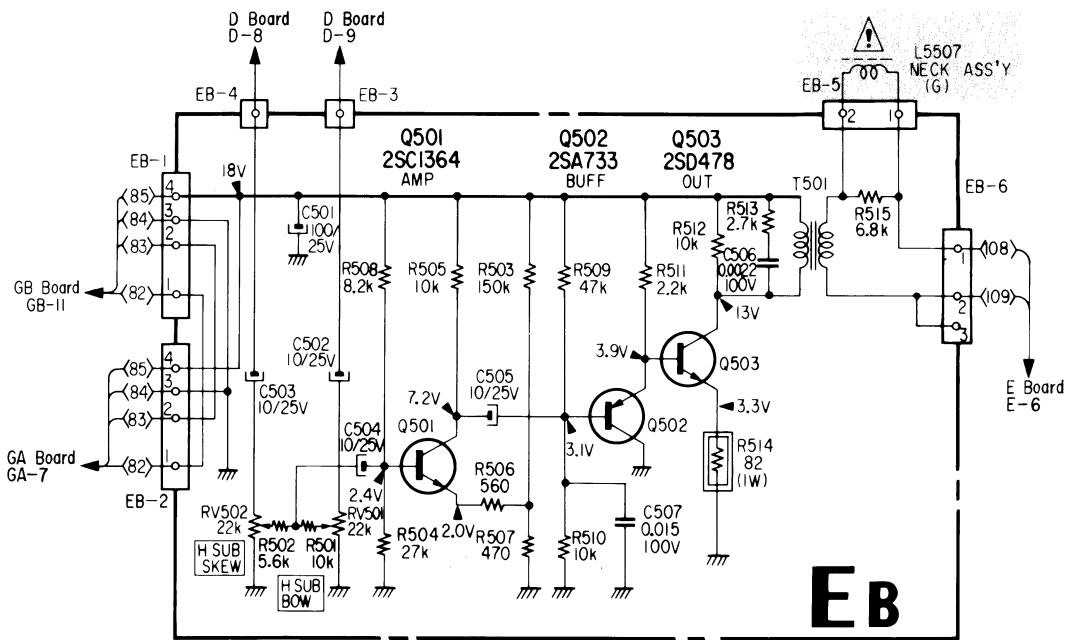
[COUSTOMER
CONTROL]


SCHEMATIC DIAGRAM

— EB Board —

KP-5010PS : Serial No. up to 11,100

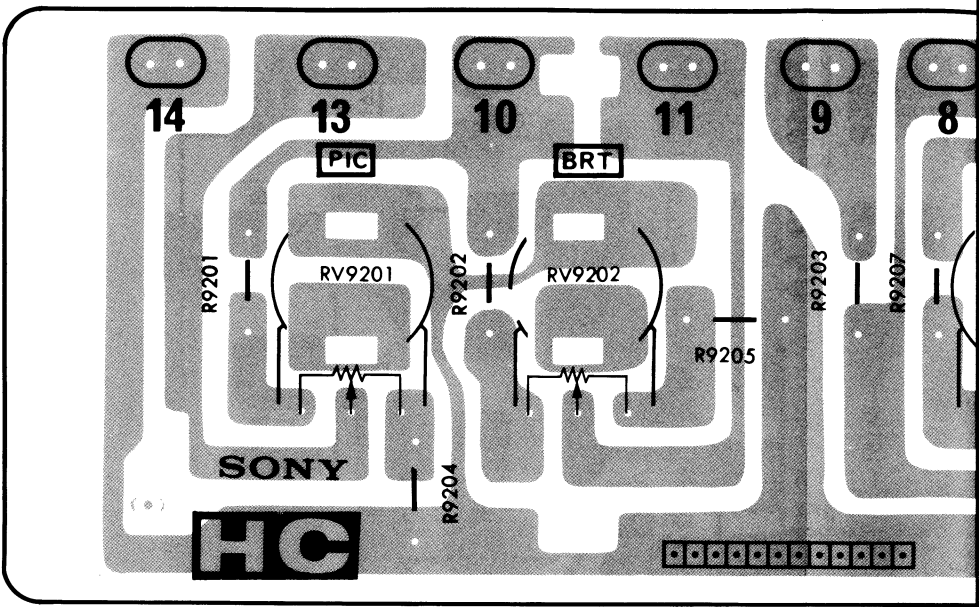
KP-7210PS : Serial No. up to 11,300



Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

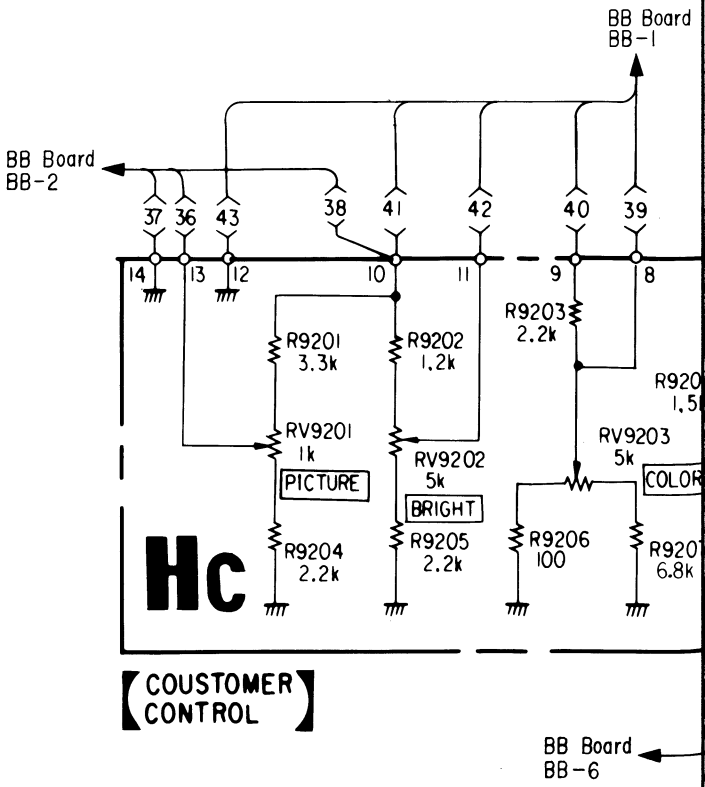
MOUNTING DIAGRAM

— HC, HA Board —



SCHEMATIC DIAGRAM

— HC, HA Board —



D

A

B

C

D

E

F

G

MOUNTING DIAGRAM
— HC, HA Board —

1

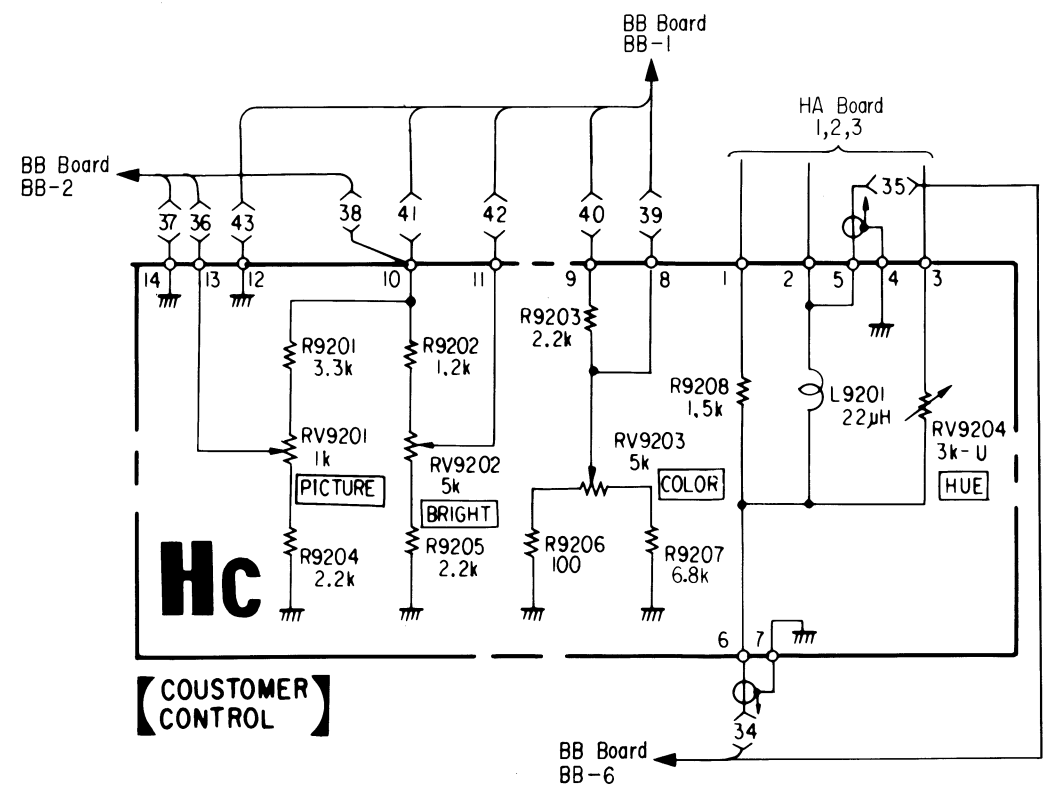
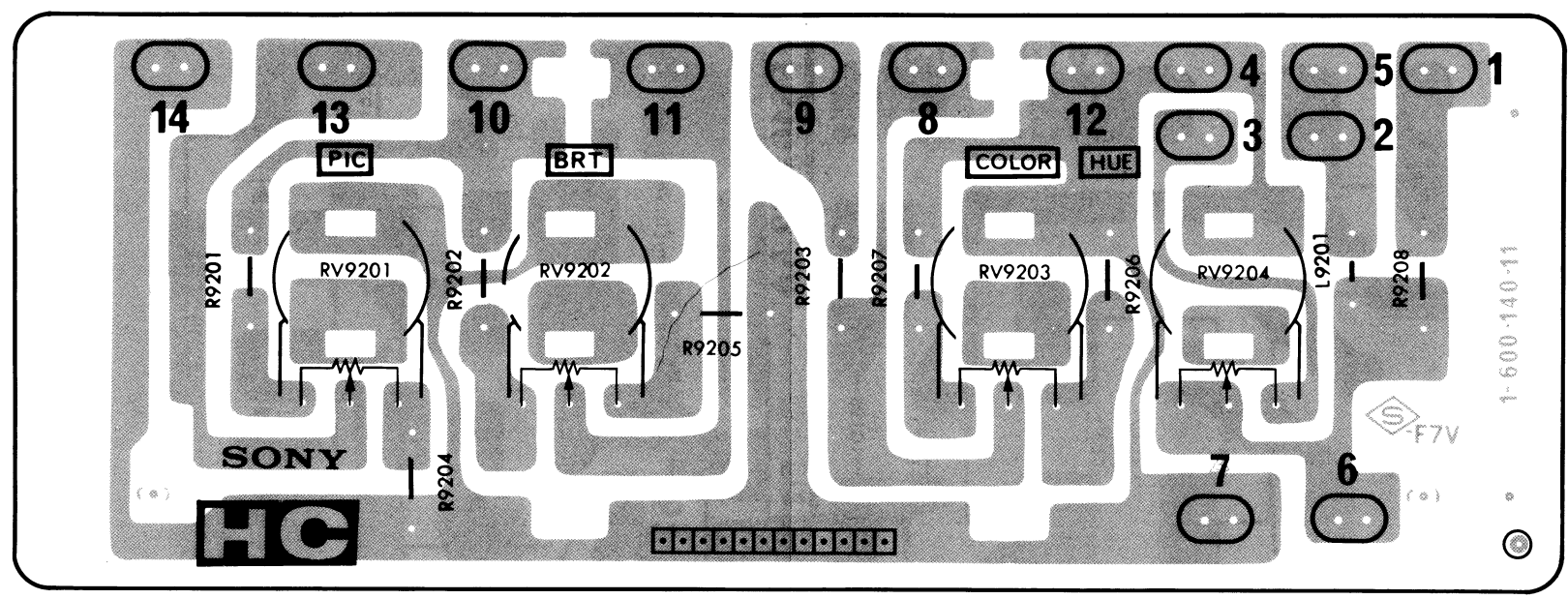
2

3

SCHEMATIC DIAGRAM
— HC, HA Board —

4

5



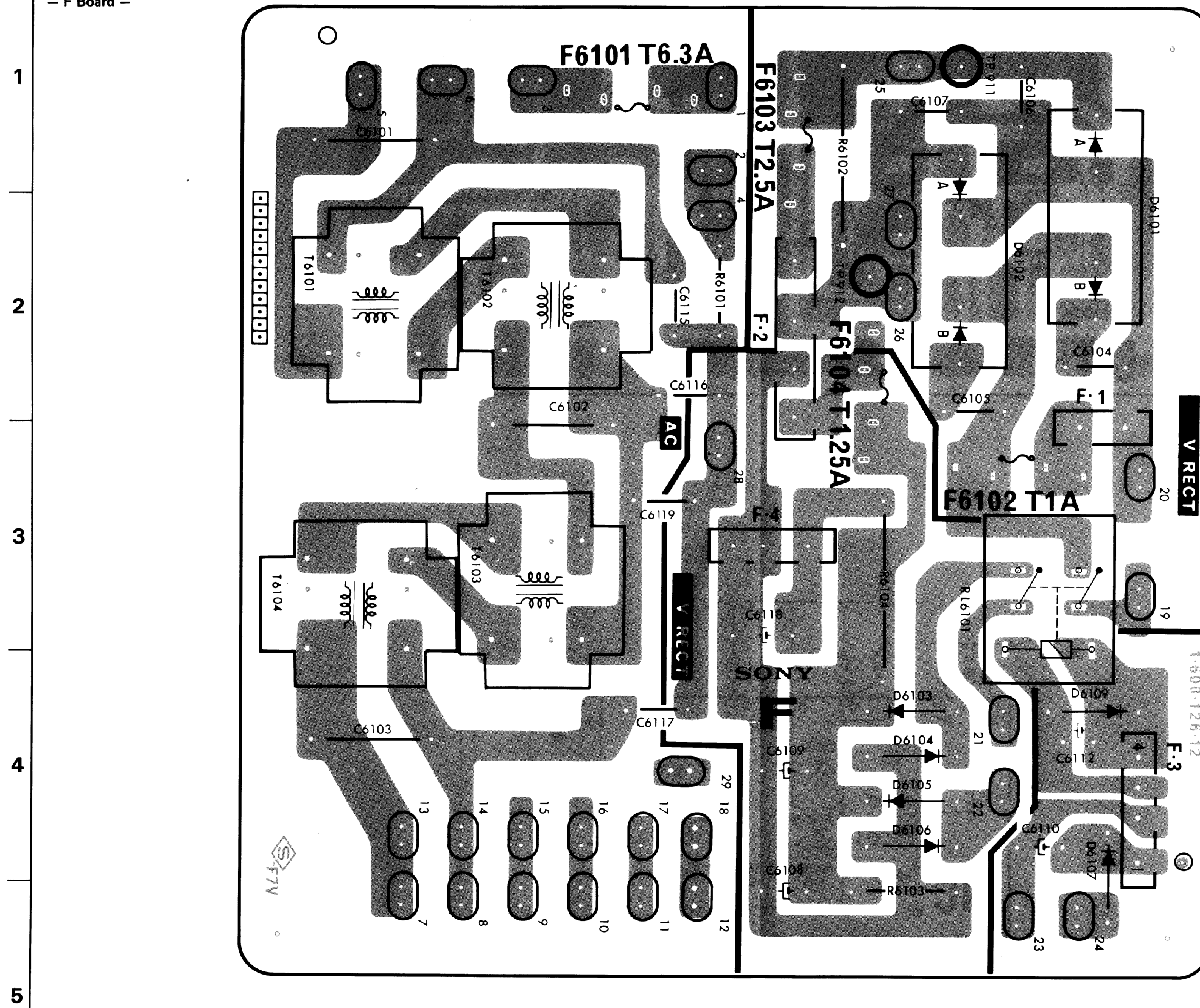
F

[LINE RECT]

F

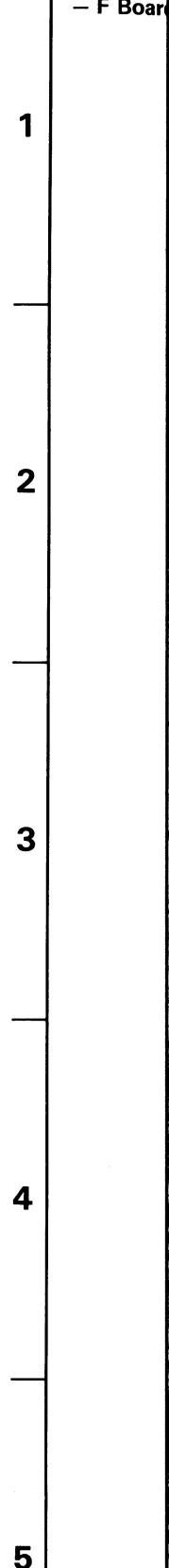
[LINE RECT]

MOUNTING DIAGRAM
— F Board —



SCHEMATA

— F Board



F

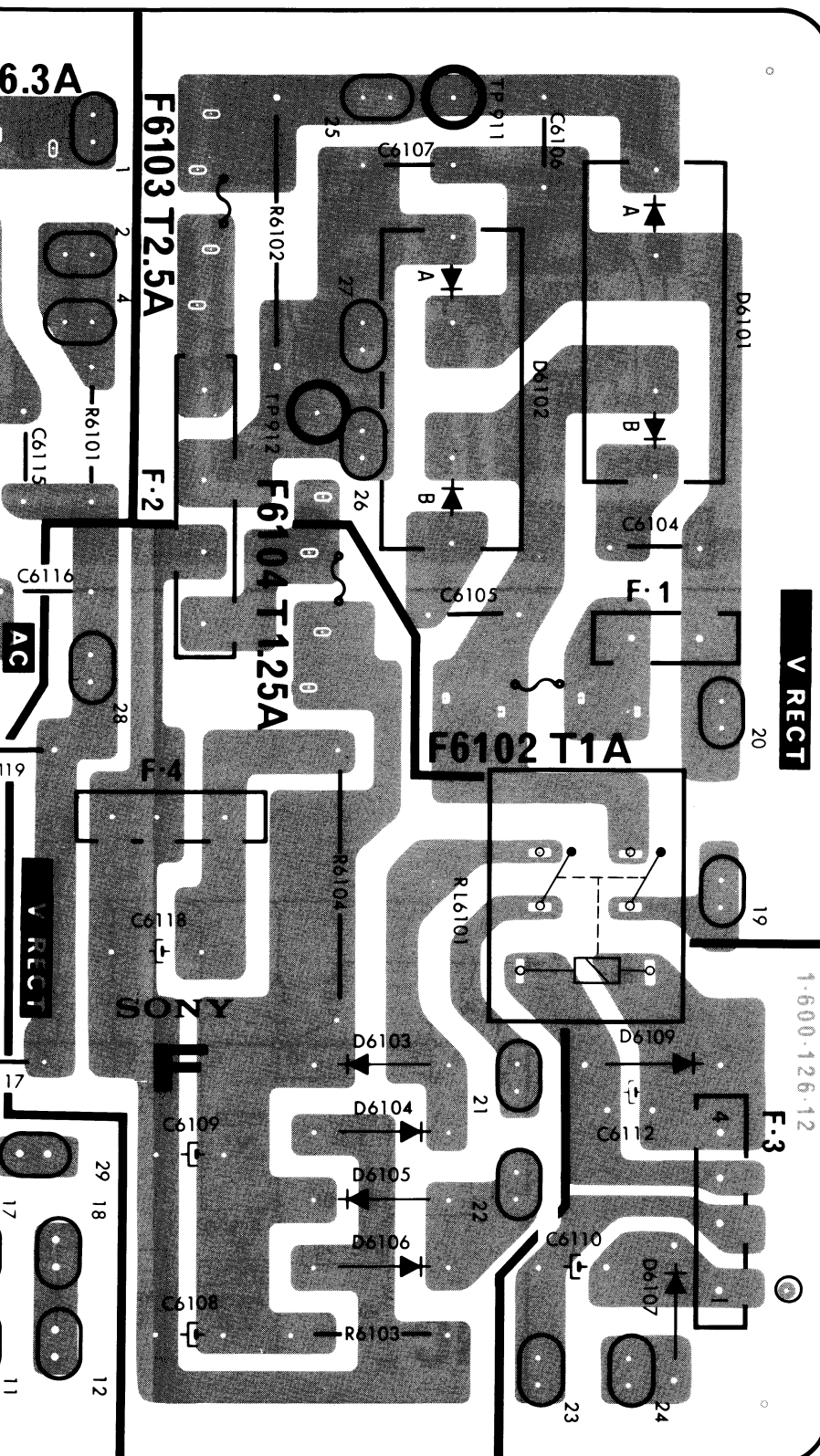
F

[LINE RECT]

D

E

F



A

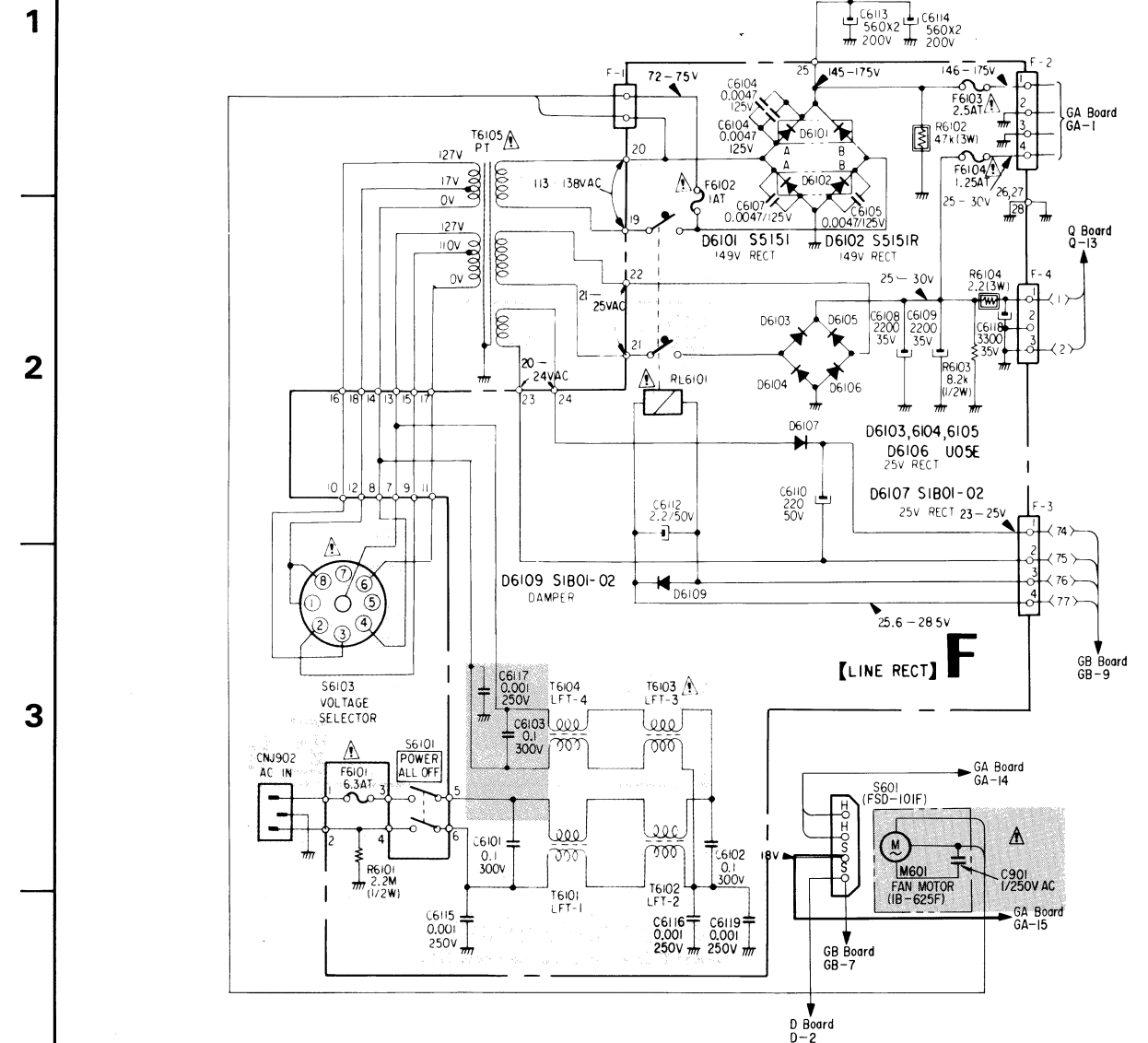
B

C

D

SCHEMATIC DIAGRAM

— F Board —

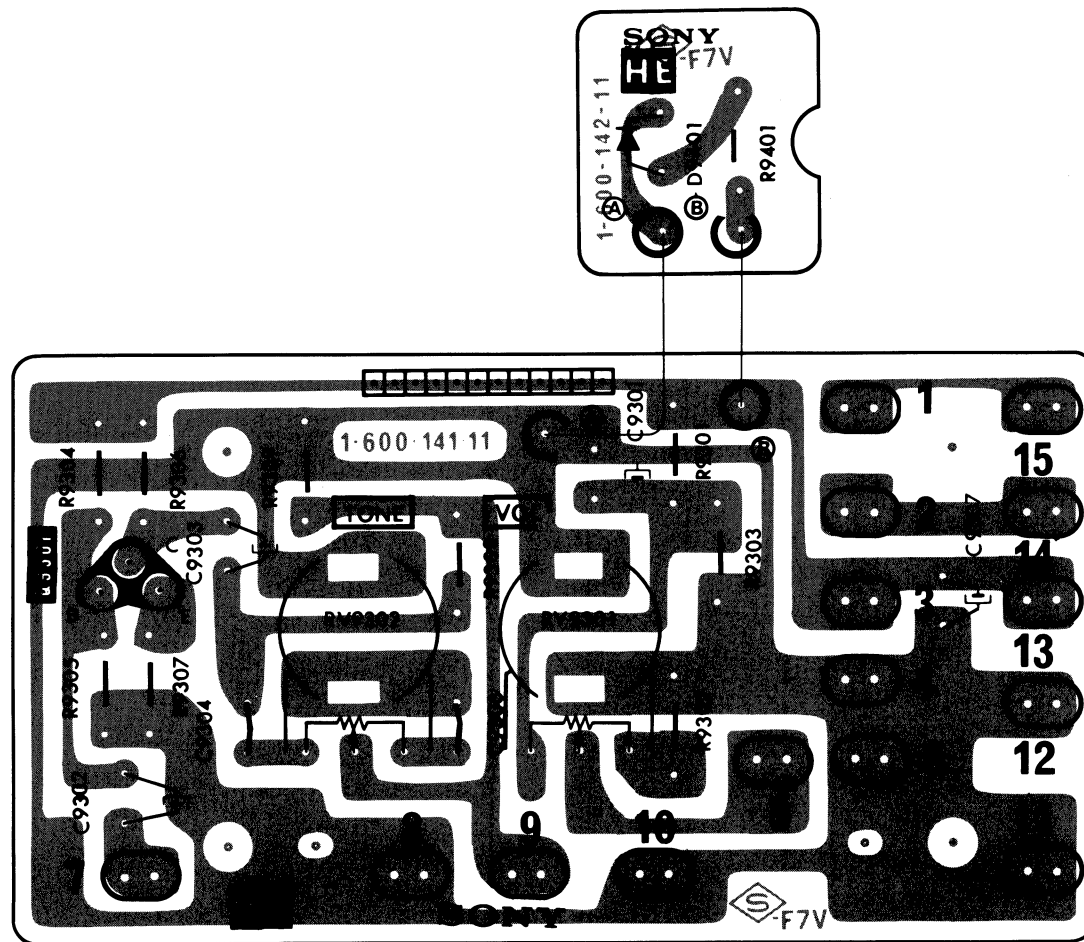


Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

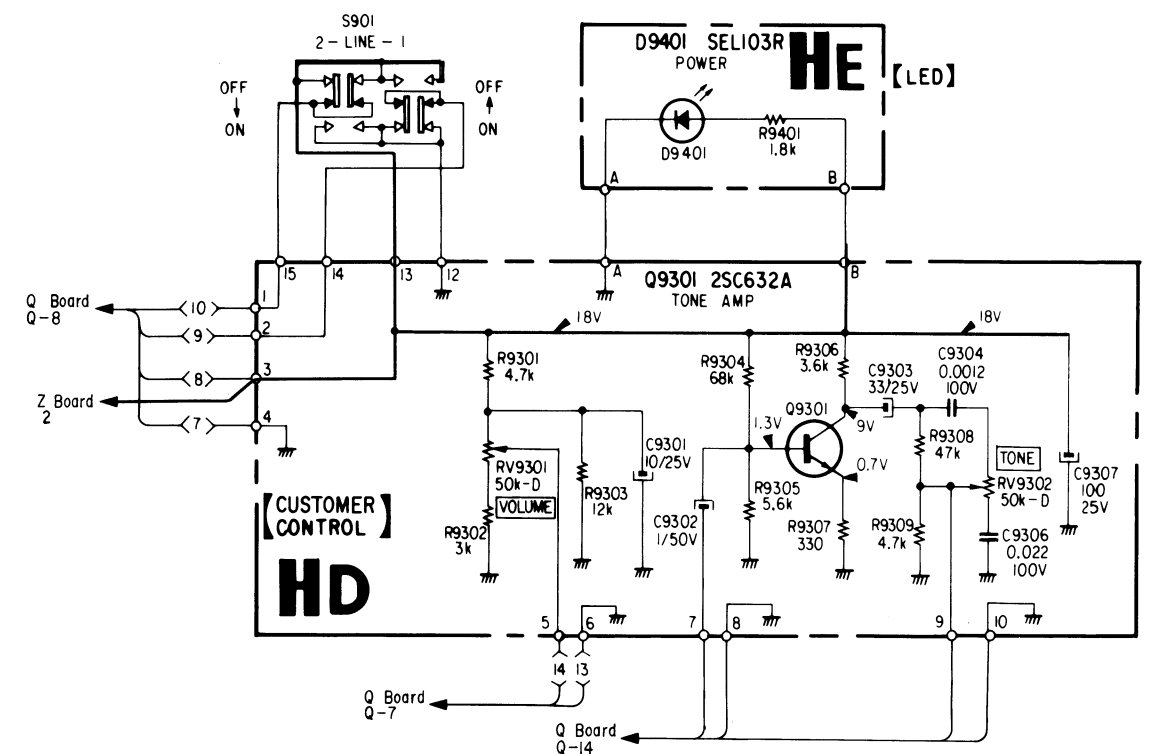
HE HD

HE [LED] HD [CUSTOMER CONTROL]

MOUNTING DIAGRAM
— HE, HD Board —



SCHEMATIC DIAGRAM
— HE, HD Board —



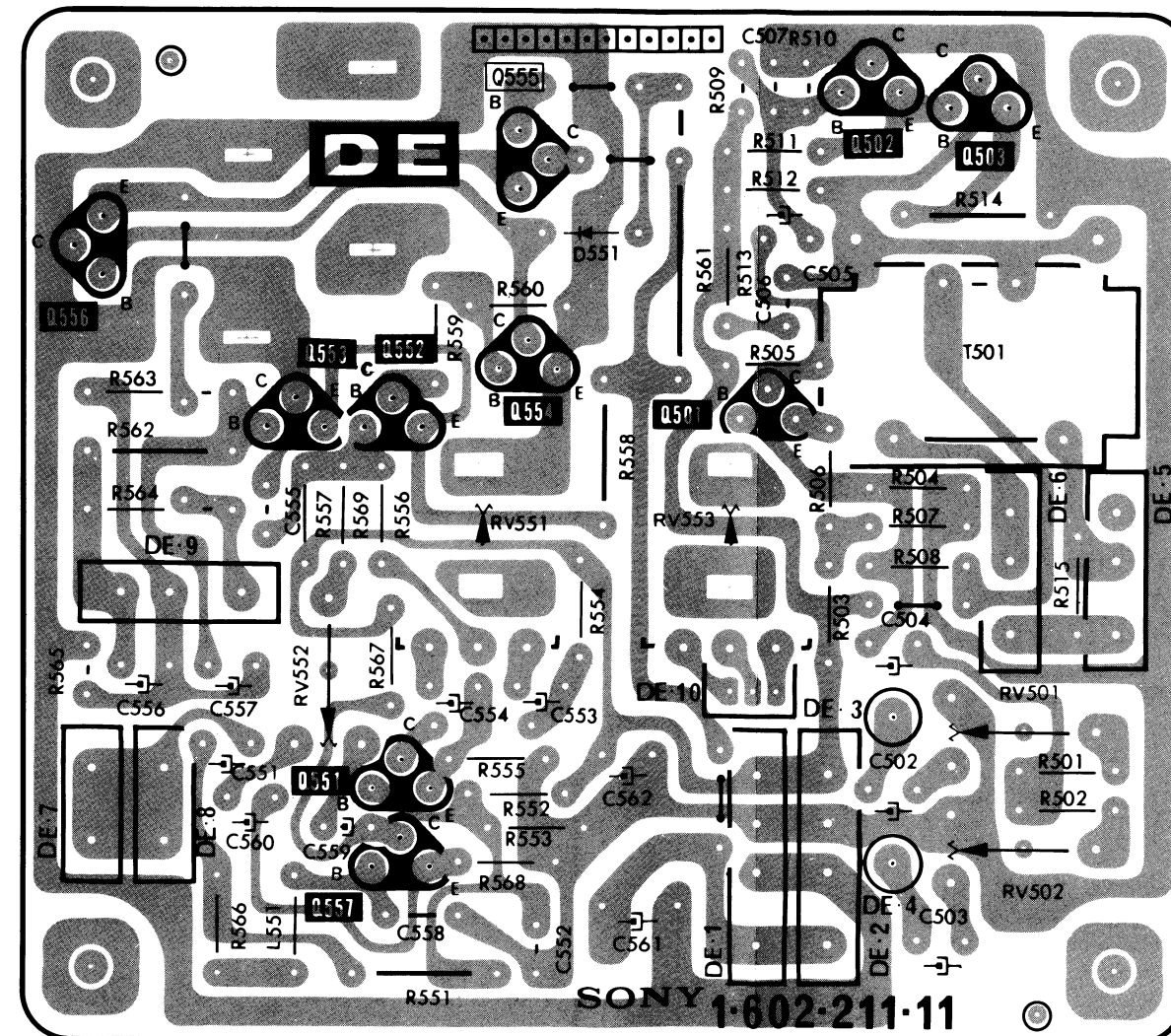
[REGISTRATION
COMPENSATOR]

DE

DE

MOUNTING DIAGRAM
— DE Board —

KP-5010PS : Serial No. 11,101 and later
KP-7210PS : Serial No. 11,301 and later



Q	D	ADJ
502 503 555		
556	511	
554 553,552 501		
		RV551 RV553
		R552 RV501
551		
557		RV502
Q	D	ADJ

A

B

C

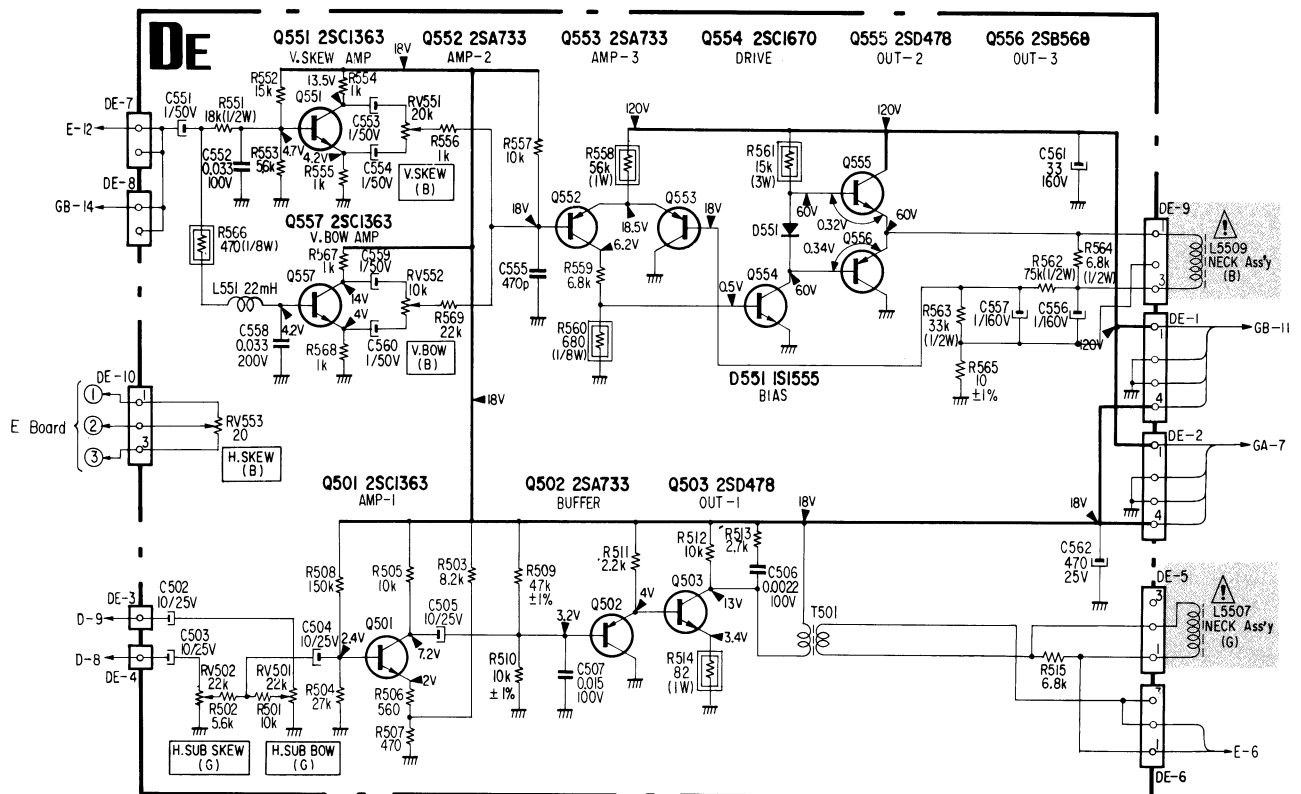
D


SCHEMATIC DIAGRAM

— DE Board —

KP-5010PS : Serial No. 11,101 and later

KP-7210PS : Serial No. 11,301 and later



Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

C

[B, G, R, OUT]

A

B

C

D

MOUNTING DIAGRAM
— CB/CG/CR Board —

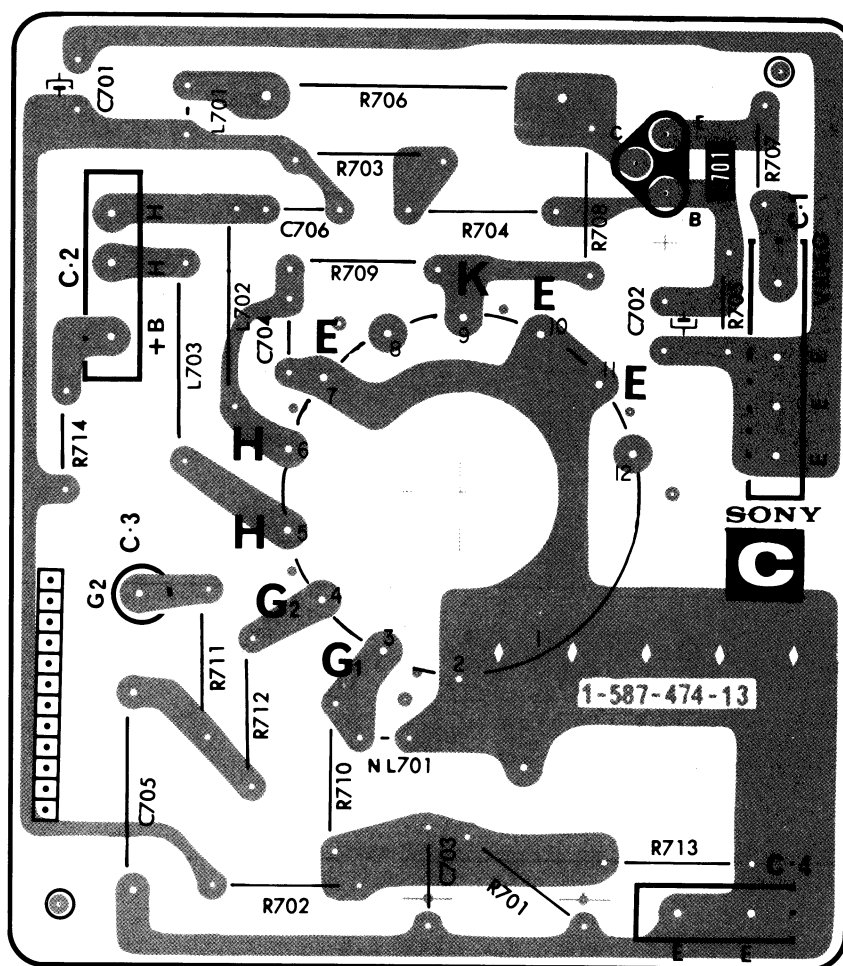
1

2

3

4

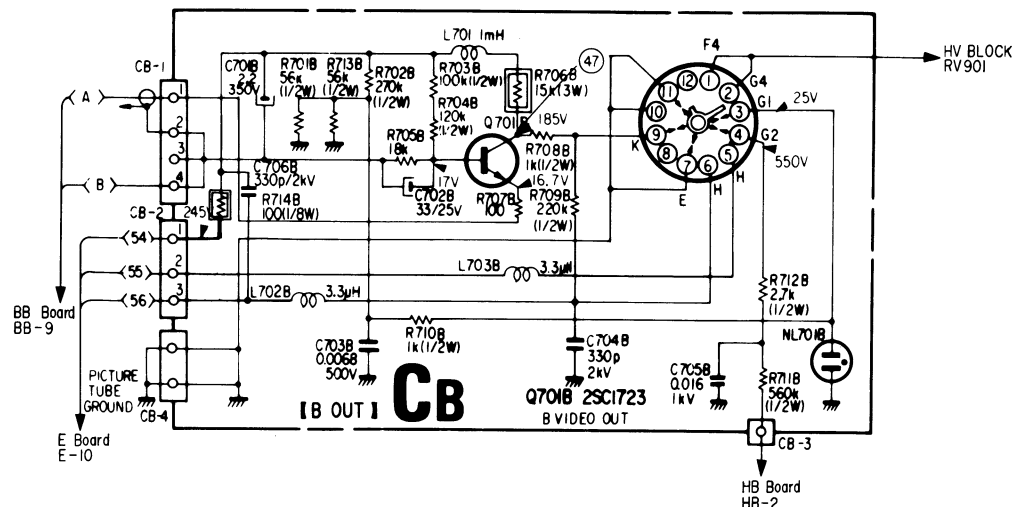
5



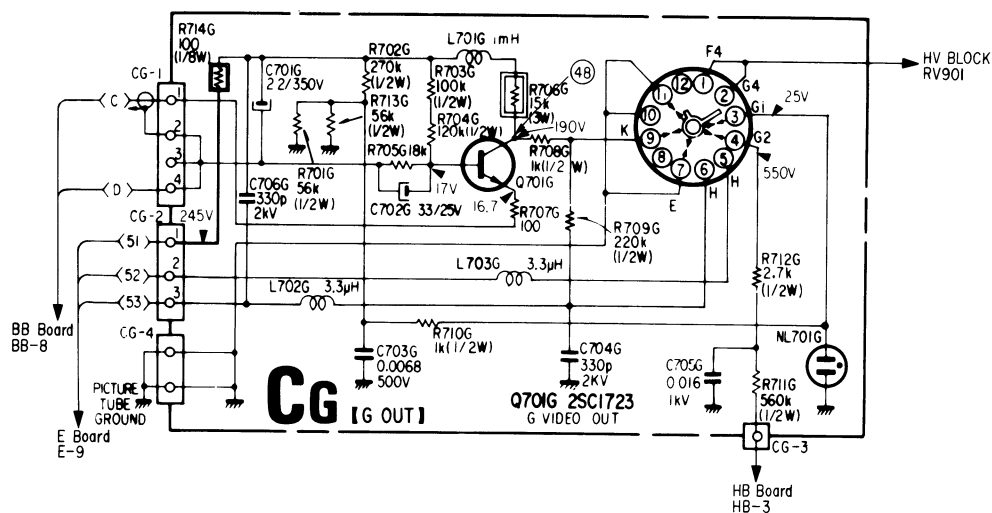
CR

D

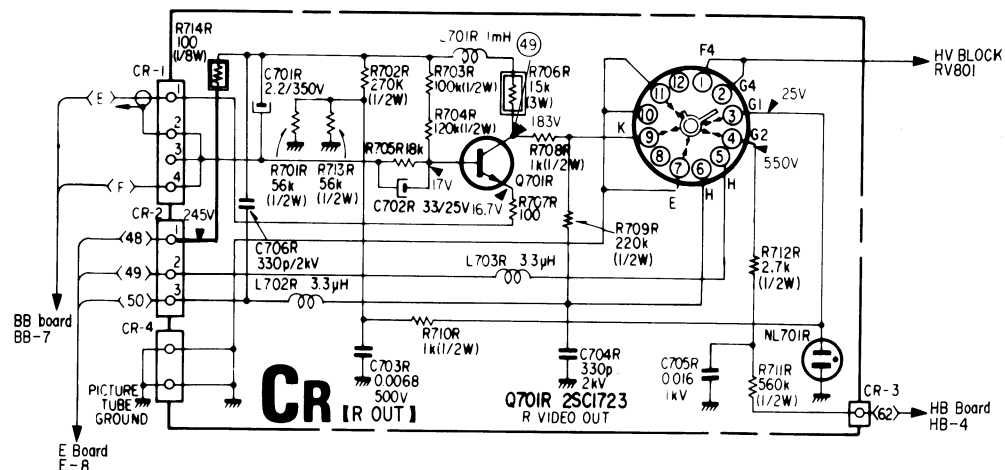
— CB Board —



— CG Board —

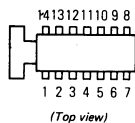


— CR Board —



5-3. SEMICONDUCTORS

CX095C

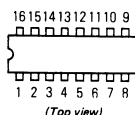


TBA540

TCA640

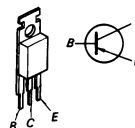
TCA650

TCA660B



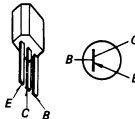
2SA671

2SB568



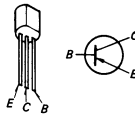
2SA678

2SA1027R



2SA684

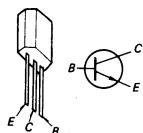
2SA773



2SC403C

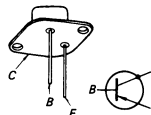
2SC632A

2SC634A



2SC867

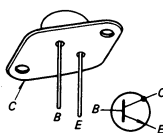
2SC867A



2SC1114

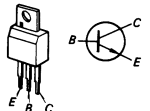
2SC1116A

2SD725



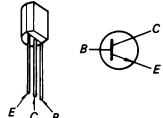
2SC1124

2SC1962



2SC1362

2SC1364



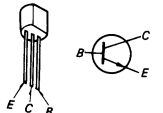
2SC1474

2SC1475

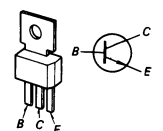
2SC1670

2SC1890A

2SD666A

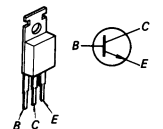


2SC1723



2SC1061

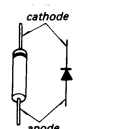
2SD478



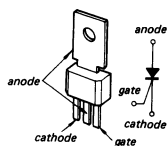
1S1555

1S1585

10E2



CV12E



ERC26-15

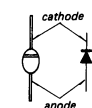
GH3F

U05E

V06C

V09C

V11N



EQA01-05S

EQA01-06S

EQA01-08S

EQA01-10R

EQA01-11S

EQA01-25R

EQB01-05

EQB01-06

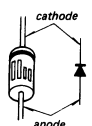
EQB01-08

EQB01-10

EQB01-11Z

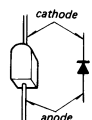
EQB01-25

SIB01-02



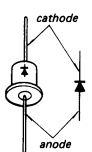
HF1

HF1A

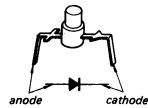


S34

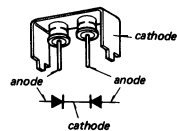
SB2B



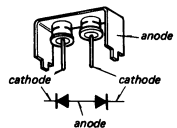
SEL103R



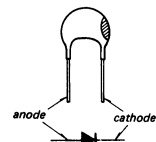
S5151



S5151R



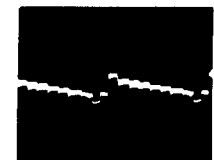
VD1220



5-4. WAVEFORMS



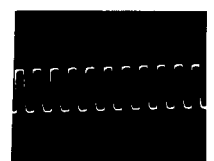
① } PAL, NTSC
② 1Vp-p (H)



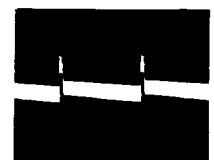
① } SECAM
② 1Vp-p (H)



③ 100Vp-p (H)



④ 4.4Vp-p



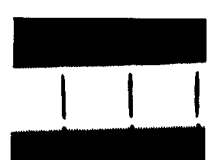
⑤ 86Vp-p (V)



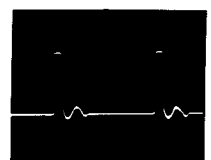
⑥ 6.8Vp-p



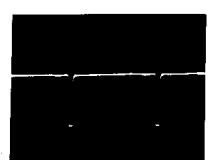
⑦ 6.8Vp-p



⑧ 1.6Vp-p



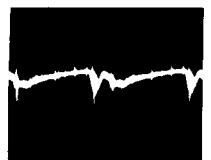
⑨ 14Vp-p (H)



⑩ 5.2Vp-p (H)



⑪ PAL, NTSC
0.8Vp-p (H)



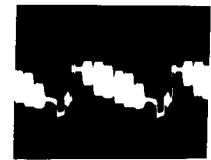
⑪ SECAM
0.5Vp-p (H)



⑫ PAL
2.6Vp-p (H)



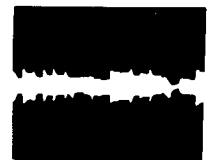
⑫ SECAM
2.2Vp-p (H)



⑫ NTSC
2.8Vp-p (H)



⑬ PAL, NTSC
3.3Vp-p (H)



⑬ SECAM
0.8Vp-p (H)



⑭ PAL, NTSC
0.44Vp-p (H)



⑭ SECAM
0.54Vp-p (H)



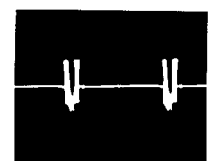
⑮ PAL..... 2.5Vp-p (H)
NTSC..... 0.62Vp-p (H)



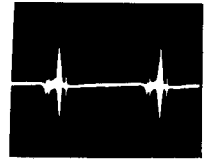
⑮ SECAM
2.6Vp-p (H)



⑯ PAL
2Vp-p (H)



⑯ SECAM
5.2Vp-p (H)



⑯ NTSC
1.9Vp-p (H)



⑰ PAL2Vp-p (H)
NTSC.....0.62Vp-p (H)



⑰ SECAM
2.5Vp-p (H)



⑱ PAL, SECAM, NTSC
7Vp-p (H)



⑲ PAL, SECAM, NTSC
3.3Vp-p (H)



⑳ PAL, NTSC
0.44Vp-p (H)



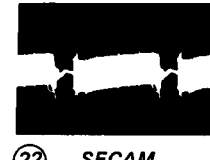
⑳ SECAM
2.3Vp-p (H)



㉑ PAL, SECAM, NTSC
0.16Vp-p (H)



㉒ PAL
0.46Vp-p (H)



㉒ SECAM
0.8Vp-p (H)



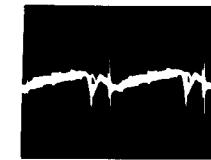
㉒ NTSC
0.46Vp-p (H)



㉓ PAL
0.4Vp-p (H)



㉓ SECAM
0.6Vp-p (H)



㉓ NTSC
0.4Vp-p (H)



㉔ PAL
1.4Vp-p (H)



㉔ SECAM
1.6Vp-p (H)



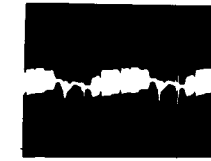
㉔ NTSC
1Vp-p (H)



㉕ PAL
1.6Vp-p (H)



㉕ SECAM
2.4Vp-p (H)



㉕ NTSC
1Vp-p (H)



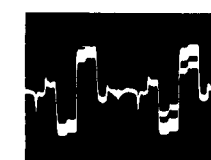
㉖ PAL
1.2Vp-p (H)



㉖ SECAM
2.2Vp-p (H)



㉖ NTSC
0.48Vp-p (H)



㉗ PAL
2.2Vp-p (H)



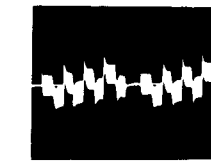
㉗ SECAM
1.6Vp-p (H)



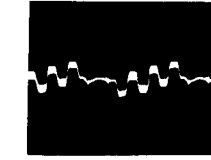
㉗ NTSC
0.64Vp-p (H)



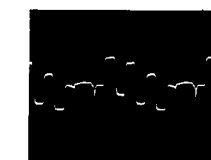
㉘ PAL
2.9Vp-p (H)



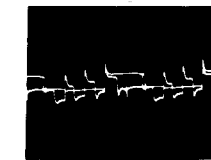
㉘ SECAM
2.6Vp-p (H)



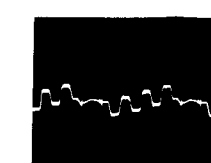
㉘ NTSC
0.9Vp-p (H)



㉙ PAL
2.4Vp-p (H)



㉙ SECAM
2Vp-p (H)



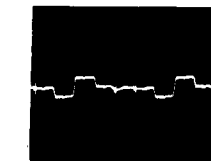
㉙ NTSC
0.8Vp-p (H)



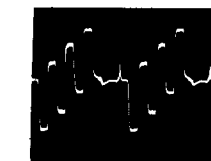
㉚ PAL
1.7Vp-p (H)



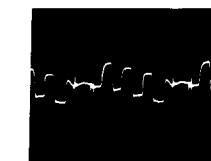
㉚ SECAM
2.2Vp-p (H)



㉚ NTSC
0.6Vp-p (H)



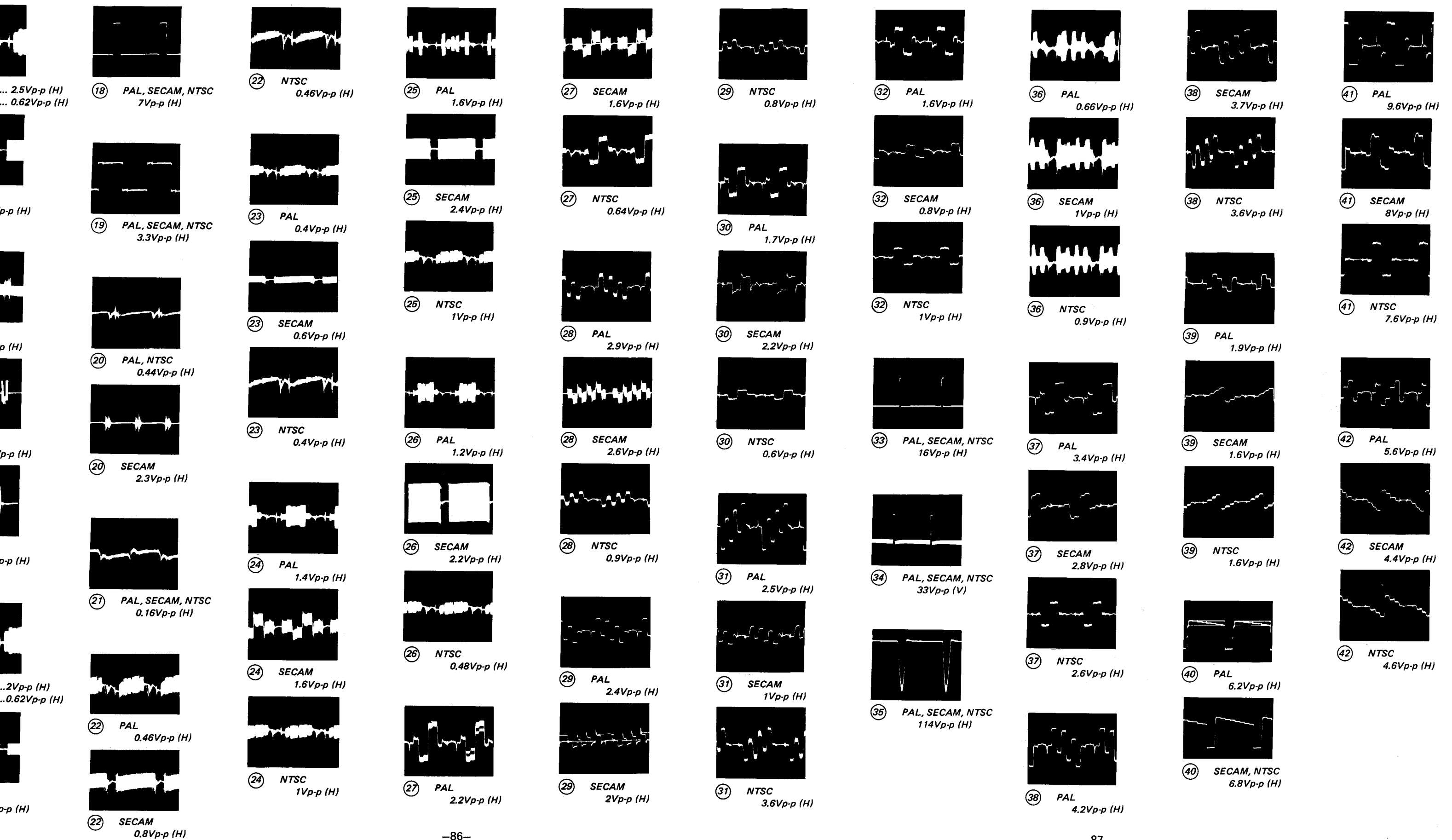
㉛ PAL
2.5Vp-p (H)

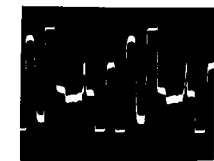


㉛ SECAM
1Vp-p (H)



㉛ NTSC
3.6Vp-p (H)

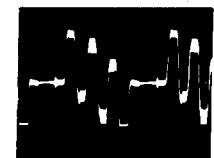




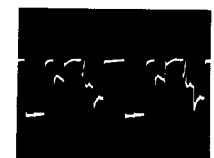
43 PAL
10.4Vp-p (H)



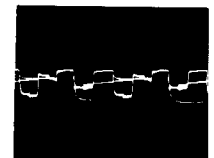
43 SECAM
10Vp-p (H)



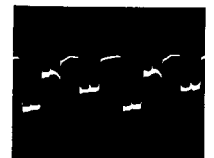
43 NTSC
9.4Vp-p (H)



44 PAL
3.1Vp-p (H)



44 SECAM
1.4Vp-p (H)



44 NTSC
1.4Vp-p (H)



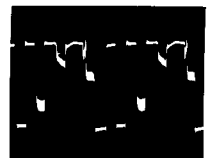
45 PAL
3.6Vp-p (H)



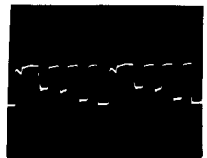
45 SECAM
1.6Vp-p (H)



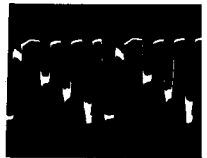
45 NTSC
1.7Vp-p (H)



46 PAL
4.8Vp-p (H)



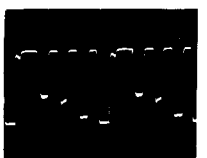
46 SECAM
2Vp-p (H)



46 NTSC
2Vp-p (H)



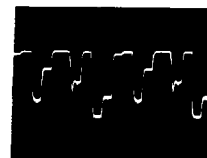
47 PAL
190Vp-p (H)



47 SECAM
185Vp-p (H)



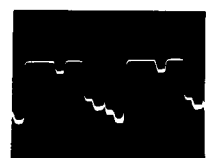
47 NTSC
180Vp-p (H)



48 PAL
165Vp-p (H)



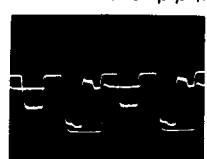
48 SECAM
150Vp-p (H)



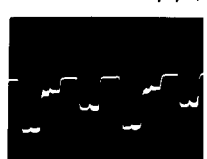
48 NTSC
150Vp-p (H)



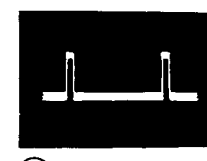
49 PAL
145Vp-p (H)



49 SECAM
150Vp-p (H)



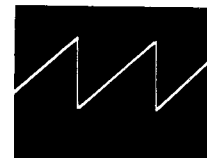
49 NTSC
130Vp-p (H)



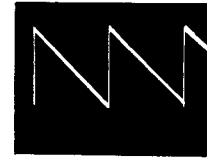
50 0.7Vp-p (V)



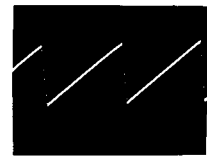
51 4.6Vp-p (V)



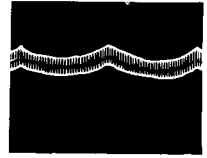
52 3.1Vp-p (V)



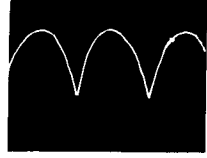
53 3Vp-p (V)



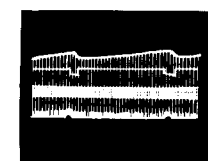
54 0.55Vp-p (H)



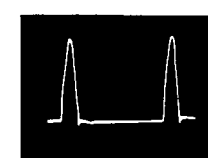
55 0.27Vp-p (V)



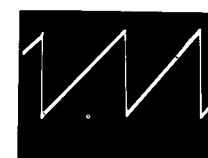
56 3Vp-p (V)



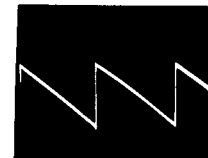
57 2Vp-p (V)



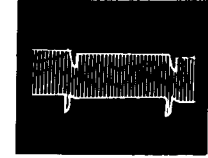
58 3.3Vp-p (H)



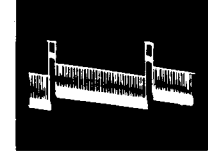
59 3Vp-p (V)



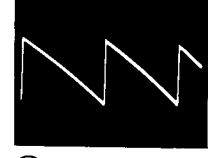
60 2.4Vp-p (V)



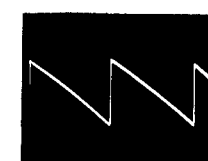
61 0.27Vp-p (V)



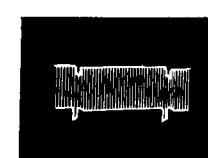
62 106Vp-p (V)



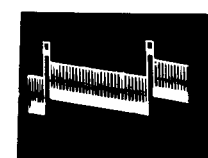
63 2.4Vp-p (V)



64 2.4Vp-p (V)



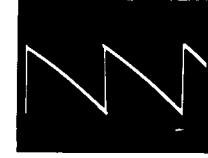
65 0.27Vp-p (V)



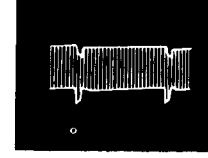
66 112Vp-p (V)



67 2.4Vp-p (V)



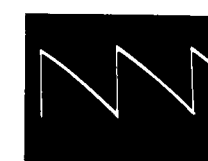
68 2.4Vp-p (V)



69 0.27Vp-p (V)



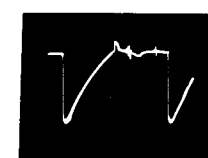
70 86Vp-p (V)



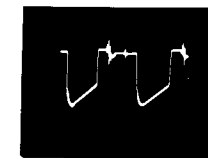
71 2.4Vp-p (V)



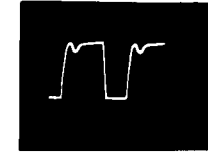
72 9.2Vp-p (H)



73 5.8Vp-p (H)



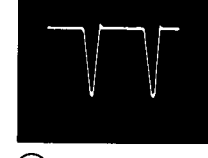
74 4Vp-p (H)



75 190Vp-p (H)



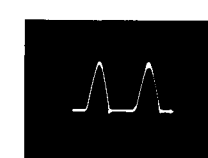
76 14.2Vp-p (H)



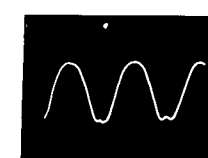
77 88Vp-p (H)



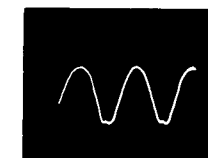
78 17Vp-p (H)



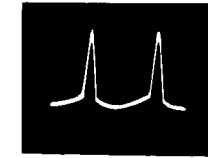
79 450Vp-p (H)



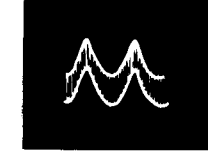
80 12.6Vp-p (H)



81 12.6Vp-p (H)



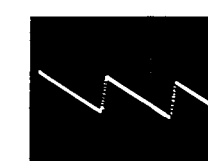
82 33.5Vp-p (H)



83 37Vp-p (H)



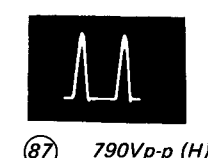
84 98Vp-p (H)



85 1.6Vp-p (V)



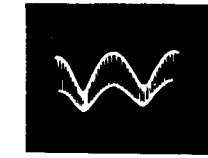
86 18Vp-p (V)



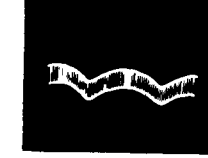
87 790Vp-p (H)



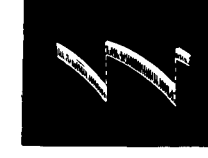
88 100Vp-p (H)



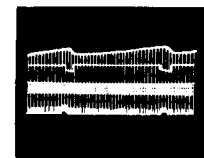
89 33Vp-p (H)



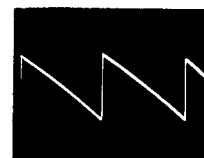
90 37Vp-p (H)



91 0.5Vp-p (V)



57 2Vp-p (V)



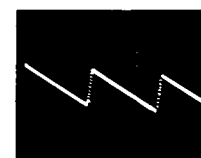
64 2.4Vp-p (V)



71 2.4Vp-p (V)



78 17Vp-p (H)



85 1.6Vp-p (V)



92 3Vp-p (V)



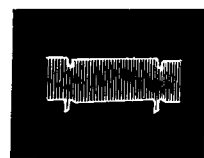
99 3.4Vp-p (V)



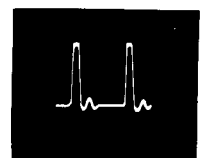
106 1.4Vp-p (H)



58 3.3Vp-p (H)



65 0.27Vp-p (V)



72 9.2Vp-p (H)



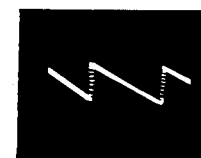
79 450Vp-p (H)



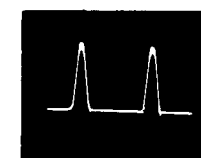
86 18Vp-p (V)



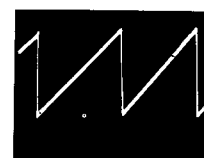
93 1.6Vp-p (V)



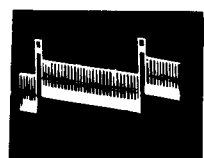
100 1.6Vp-p (V)



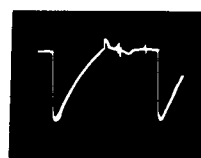
107 850Vp-p (H)



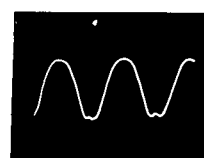
59 3Vp-p (V)



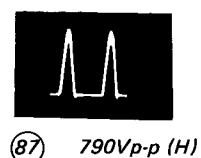
66 112Vp-p (V)



73 5.8Vp-p (H)



80 12.6Vp-p (H)



87 790Vp-p (H)



94 18Vp-p (V)



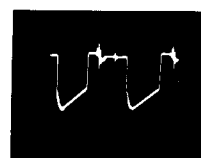
101 18Vp-p (V)



60 2.4Vp-p (V)



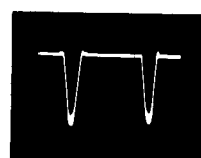
67 2.4Vp-p (V)



74 4Vp-p (H)



81 12.6Vp-p (H)



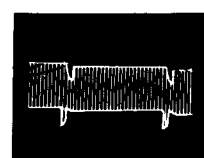
88 100Vp-p (H)



95 790Vp-p (H)



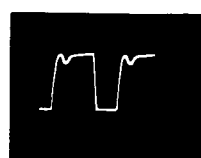
102 790Vp-p (H)



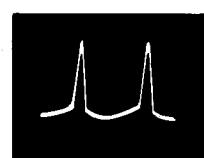
61 0.27Vp-p (V)



68 2.4Vp-p (V)



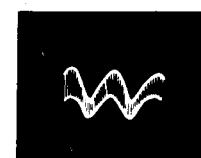
75 190Vp-p (H)



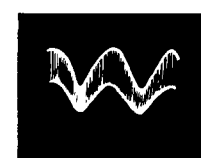
82 33.5Vp-p (H)



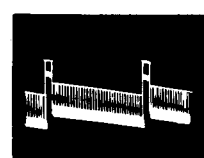
89 33Vp-p (H)



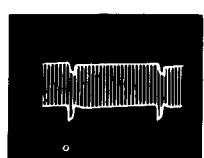
96 38Vp-p (V)



103 37Vp-p (H)



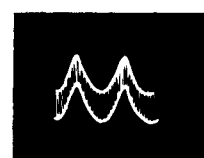
62 106Vp-p (V)



69 0.27Vp-p (V)



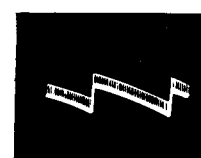
76 14.2Vp-p (H)



83 37Vp-p (H)



90 37Vp-p (H)



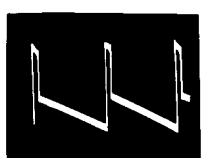
97 0.9Vp-p (V)



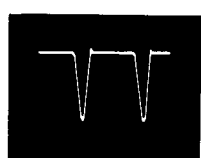
104 0.9Vp-p (V)



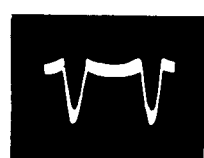
63 2.4Vp-p (V)



70 86Vp-p (V)



77 88Vp-p (H)



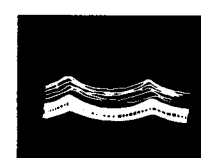
84 98Vp-p (H)



91 0.5Vp-p (V)



98 0.4Vp-p (V)



105 0.23Vp-p (V)

SECTION 6 EXPLODED VIEWS


A

B

C

D

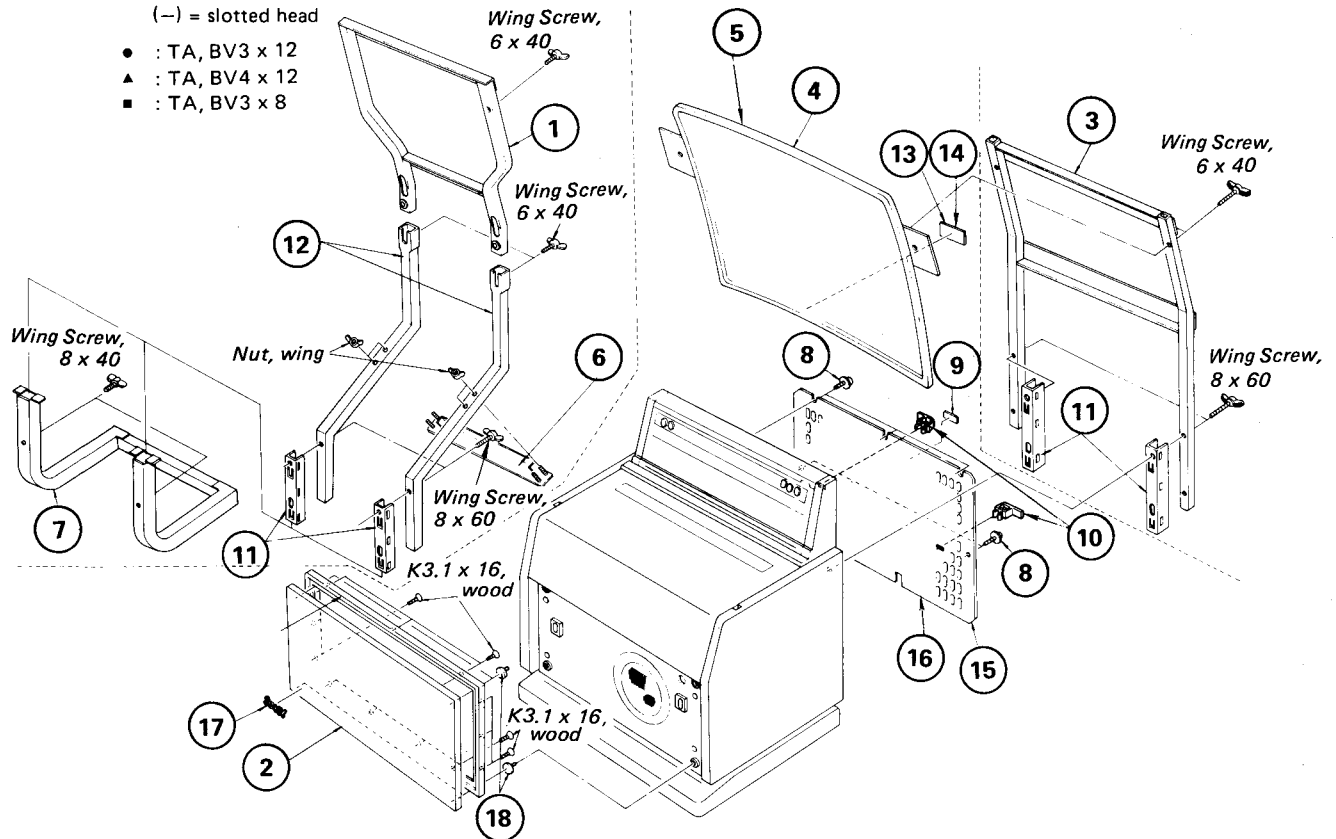
(1)

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

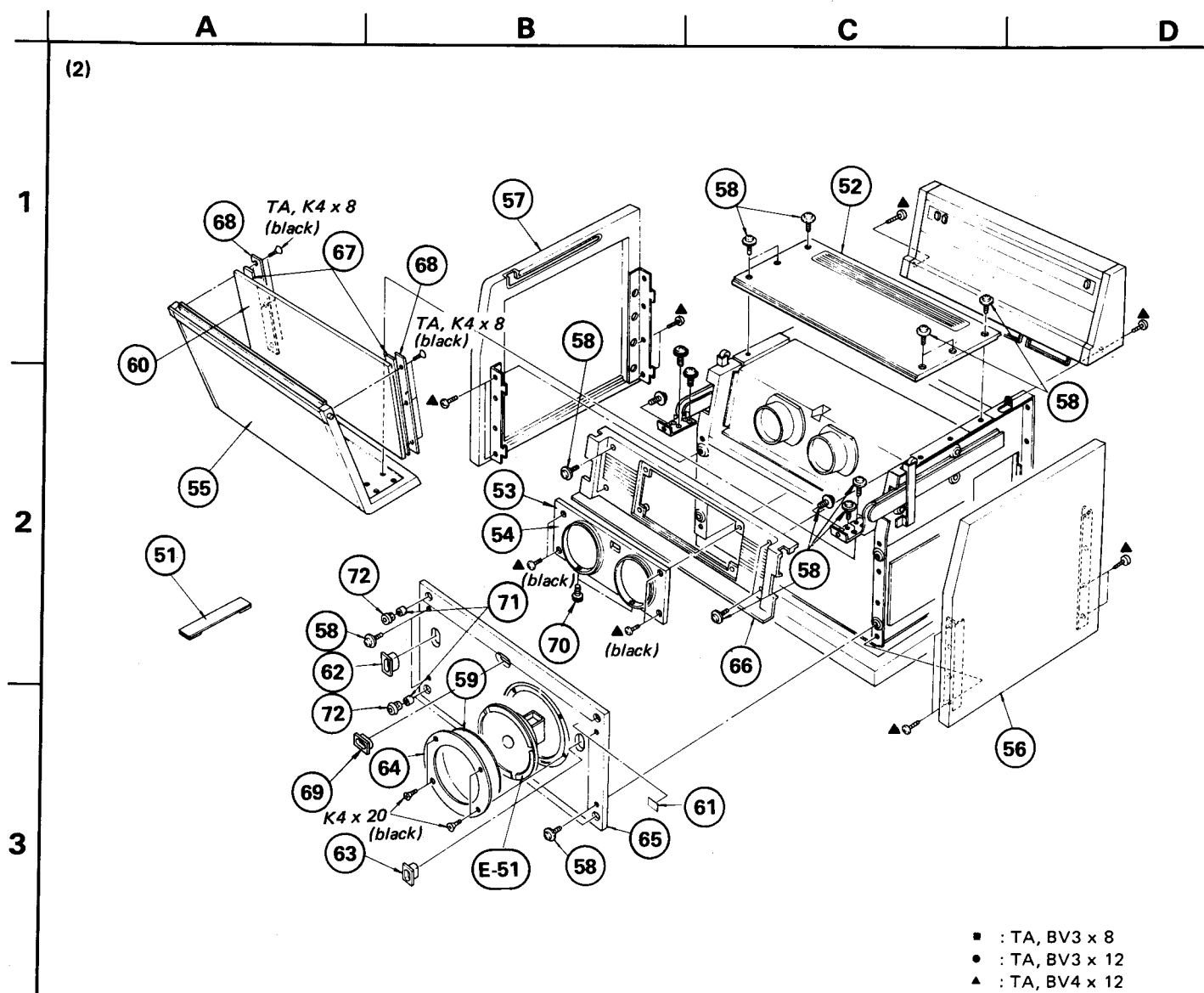
Note:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- : TA, BV3 x 12
- ▲ : TA, BV4 x 12
- : TA, BV3 x 8

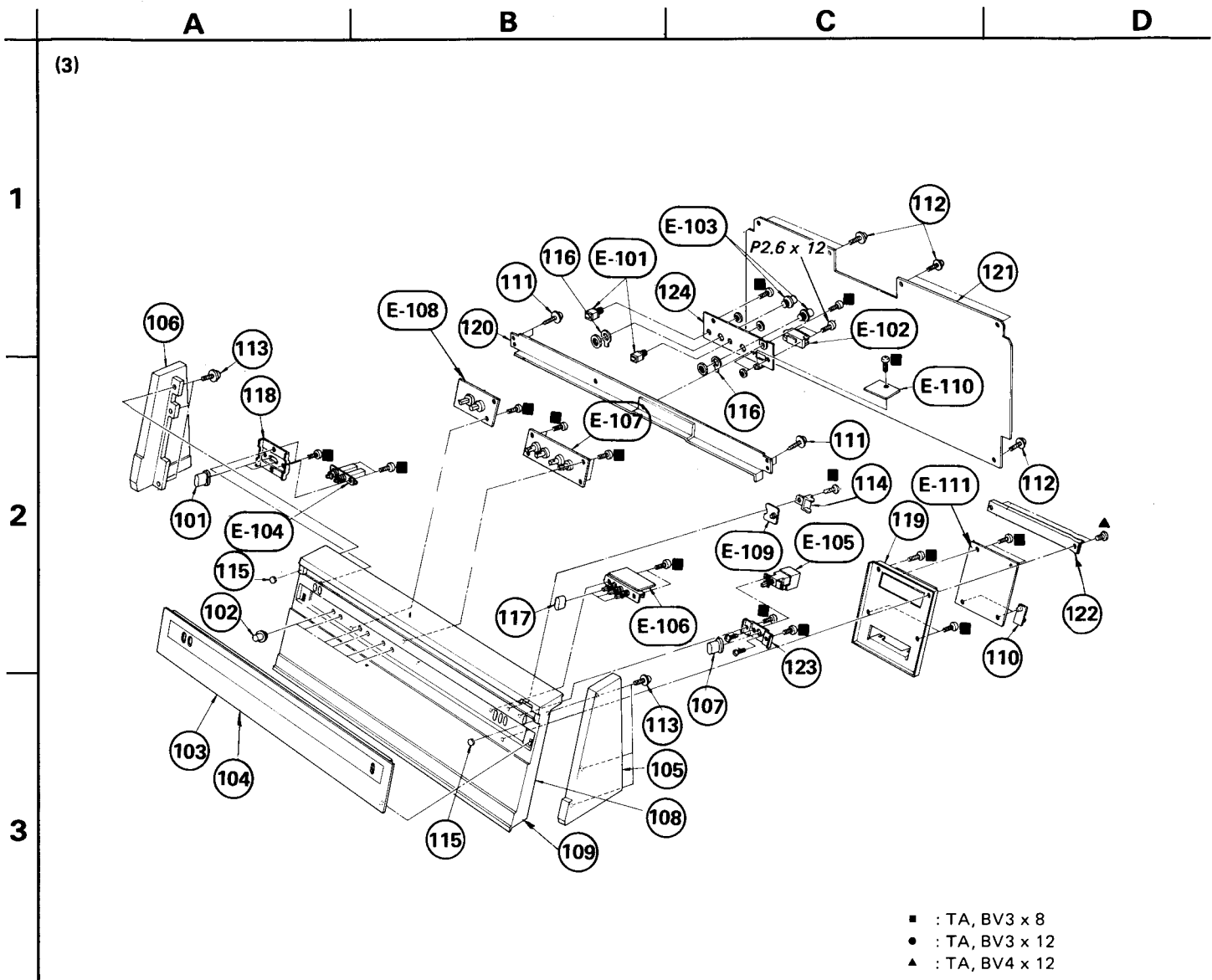
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.



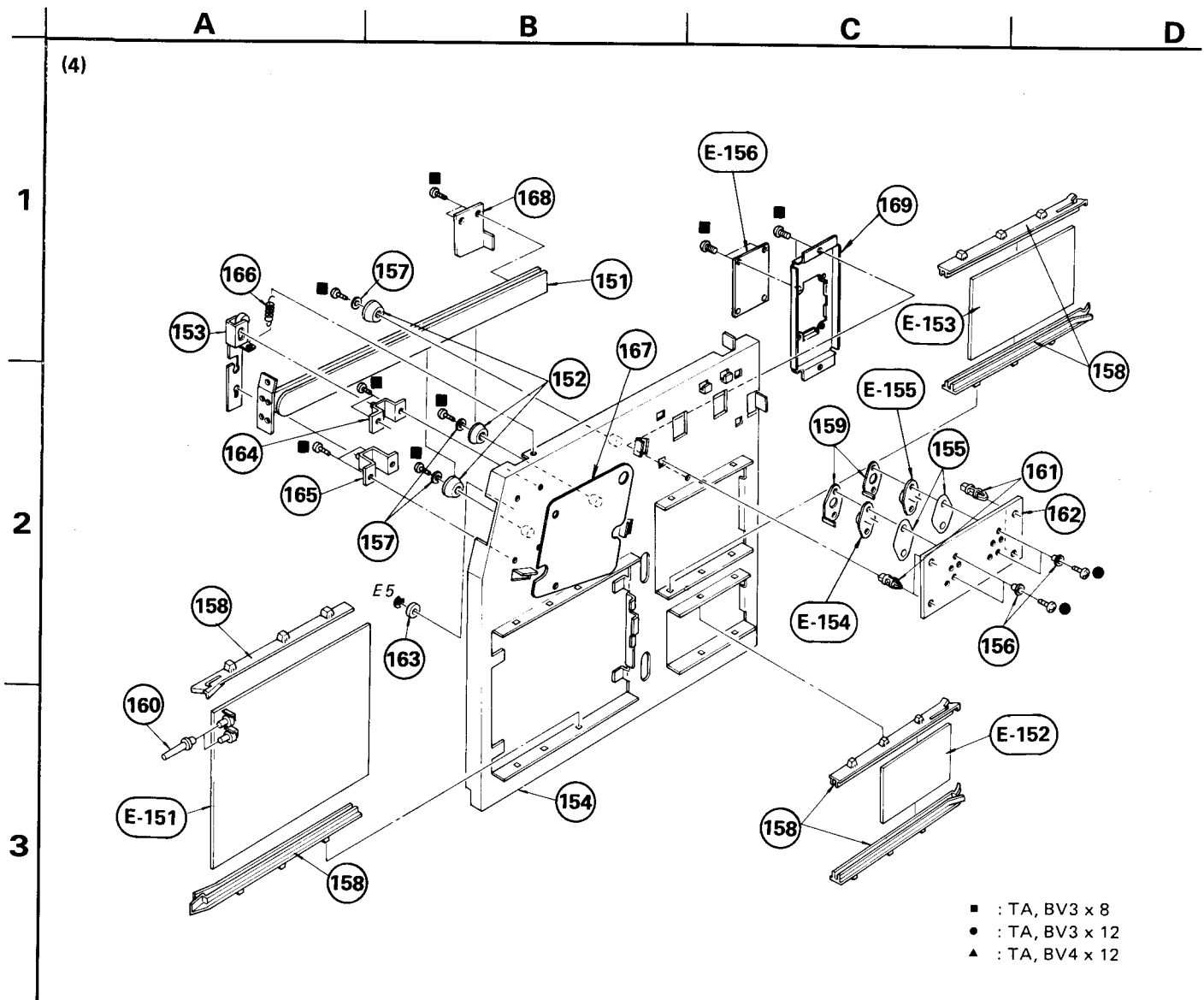
<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	X-4332-203-0	Pole Ass'y, screen (KP-7210PS)		10	● 4-304-418-00	Clamp, cord	
2	X-4332-204-0	Grille Ass'y, speaker		11	4-332-252-00	Holder, screen pole	
3	X-4332-206-0	Pole Ass'y, screen (KP-5010PS)		12	4-332-274-00	Pole (B), screen (KP-7210PS)	
4	X-4332-208-0	Screen Ass'y (KP-5010PS)		13	4-333-906-01	Label, screen (KP-7210PS)	
5	X-4332-210-0	Screen Ass'y (KP-7210PS)		14	4-333-907-00	Label, screen (KP-5010PS)	
6	X-4332-214-0	Stay (C) Ass'y, screen pole (KP-7210PS)		15	4-333-911-00	Cover (main), rear (KP-5010PS)	
7	X-4332-243-0	Pole Ass'y (KP-7210PS)		16	4-333-912-00	Cover (main), rear (KP-7210PS)	
8	4-302-404-00	Screw, self-tapping; 4 x 16		17	4-849-833-00	Emblem, SONY	
9	4-302-759-00	Label, serial number		18	4-855-710-00	Strike	



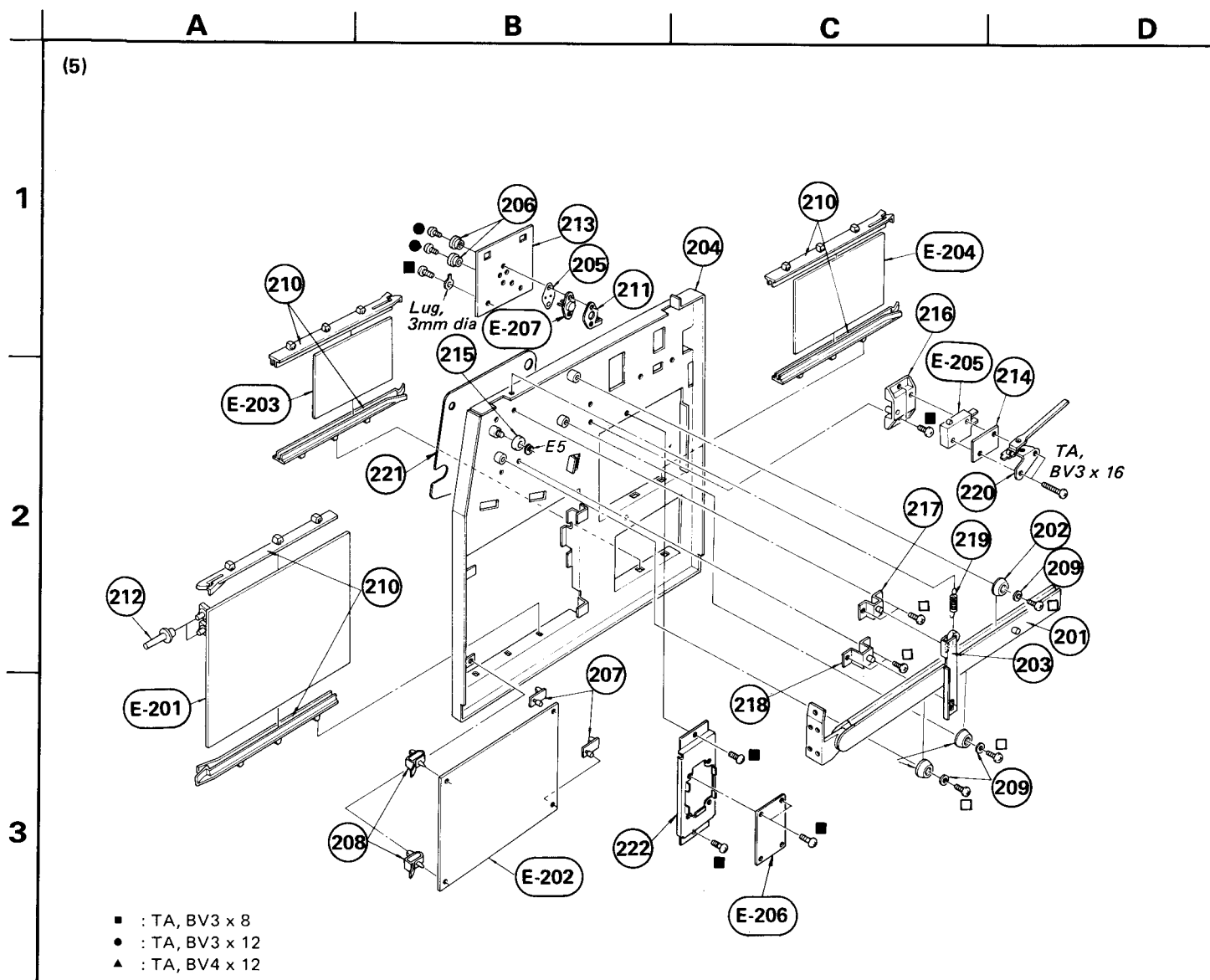
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4309-608-0	Permalloy Ass'y, convergence		62	4-332-222-02	Holder, control	
52	X-4332-207-0	Panel Ass'y, top		63	4-332-222-12	Holder, control	
53	X-4332-224-0	Panel (C) Ass'y, lens (KP-501OPS)		64	4-332-235-00	Holder, speaker	
54	X-4332-225-0	Panel (D) Ass'y, lens (KP-721OPS)		65	● 4-332-258-00	Board, baffle; speaker	
55	X-4332-230-0	Cover Ass'y, reflector		66	● 4-332-271-00	Panel, front	
56	X-4332-231-2	Board Ass'y (right), side		67	4-332-298-00	Cushion, mirror	
57	X-4332-232-2	Cover Ass'y (left), side		68	4-333-227-00	Holder, R.M.	
58	4-304-494-21	Screw, self-tapping		69	4-333-932-02	Holder, control	
59	4-332-207-00	Net, ornamental; speaker		70	4-333-934-01	Screw, ornamental	
60	4-332-215-00	Mirror, reflection		71	4-843-804-11	Catch	
61	4-332-221-00	Label, hatch switch		72	4-843-805-00	Holder, catch	



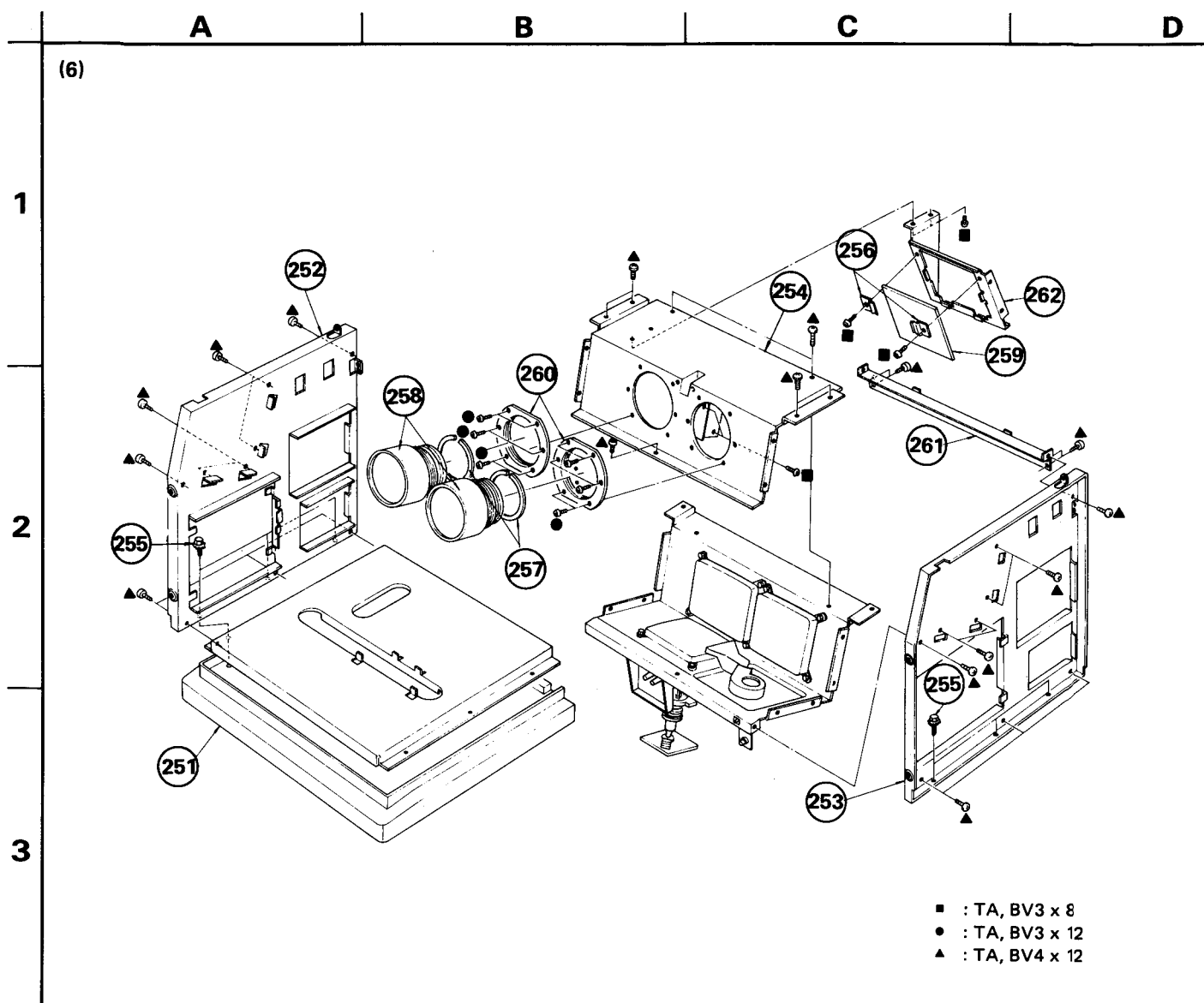
<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
101	X-4332-217-0	Push Button (E) Ass'y		112	4-302-404-00	Screw, self-tapping; 4 x 16	
102	X-4332-218-0	Knob Ass'y		113	4-309-749-00	Screw, self-tapping; 4 x 20	
103	X-4332-219-3	Lid Ass'y, sub control (KP-501OPS)		114	● 4-314-805-00	Holder, HE board	
104	X-4332-219-4	Lid Ass'y, sub control (KP-721OPS)		115	4-314-871-00	Cushion	
105	X-4332-226-2	Plate (right) Ass'y, side		116	4-325-529-00	Terminal, connector	
106	X-4332-227-2	Plate (left) Ass'y, side		117	4-325-608-11	Button, sensor	
107	X-4332-237-0	Push Button (A) Ass'y		118	● 4-332-286-00	Bracket, line switch	
108	X-4332-251-0	Panel Complete Ass'y, control (KP-721OPS)		119	● 4-333-248-00	Bracket, Q	
109	X-4332-251-2	Panel Complete Ass'y, control (KP-501OPS)		120	4-333-250-00	Stay, control panel	
110	● 3-701-832-00	Hinge, circuit board		121	4-333-258-00	Cover, control rear	
111	3-701-910-00	Screw, special		122	4-333-297-00	Stay, reforming	
				123	● 4-333-904-00	Bracket, power switch	
				124	4-333-910-00	Board, terminal; video	



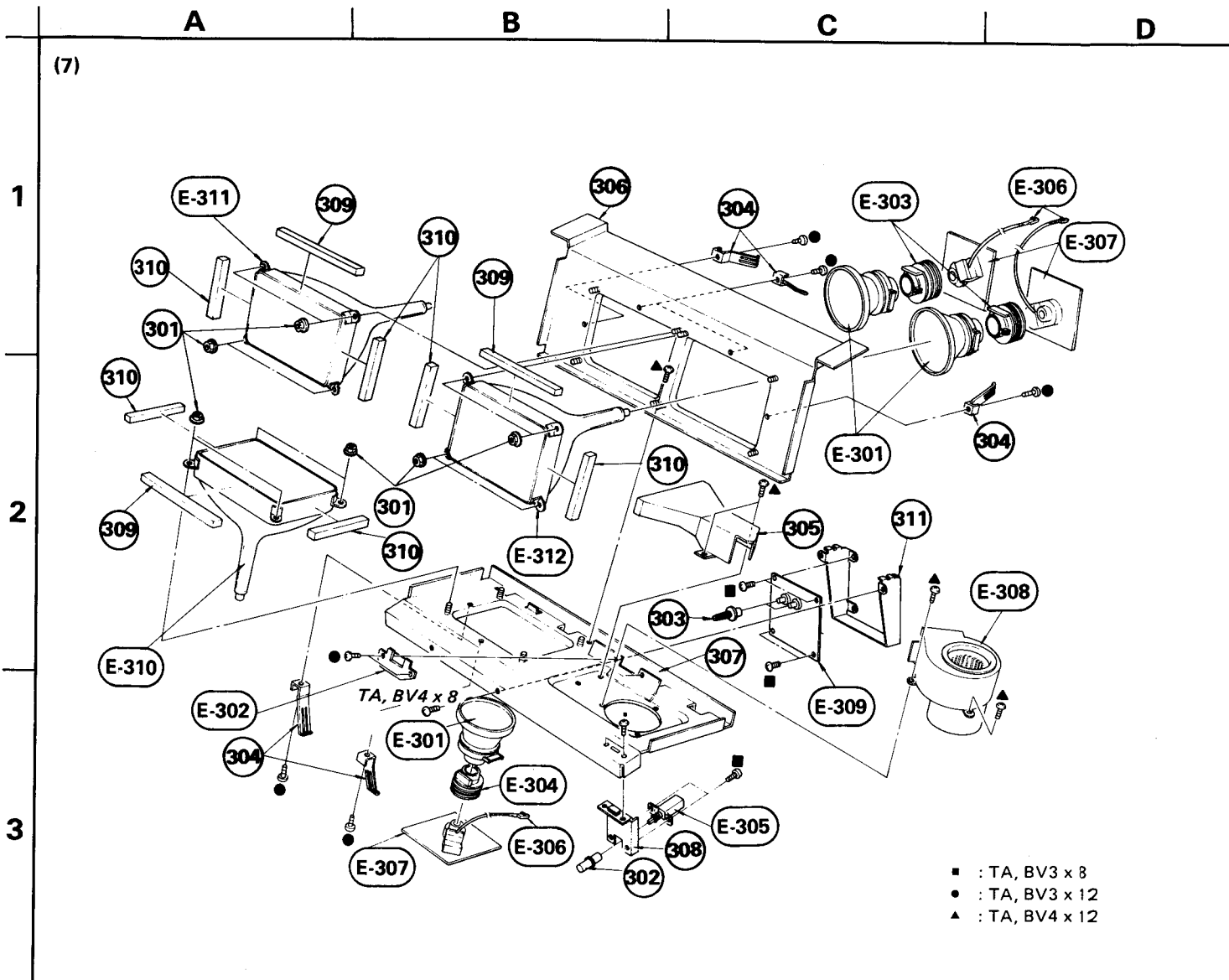
<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
151	A-1450-041-A	Arm (L) Ass'y		161	4-332-236-00	Support, heat sink	
152	● X-4332-221-0	Roller Ass'y		162	● 4-332-240-00	Heat Sink (B)	
153	X-4332-229-0	Stopper Ass'y (left)		163	4-332-277-00	Roller, stopper	
154	● X-4332-233-0	Chassis Ass'y (left), side		164	● 4-333-229-00	Bracket (A), guide	
155	3-701-353-00	Spacer, mica		165	● 4-333-230-00	Bracket (B), guide	
156	3-701-609-00	Bushing (B)		166	4-333-234-00	Spring (B), coil	
157	4-008-449-00	Spacer, bracket		167	4-333-252-00	Sheet, side (left)	
158	● 4-024-014-00	Guide, PC board		168	4-333-288-00	Plate, cushion	
159	● 4-314-938-01	Retainer (TO-3), transistor		169	● 4-333-920-02	Bracket, BC	
160	4-318-348-00	Knob, V. HOLD					



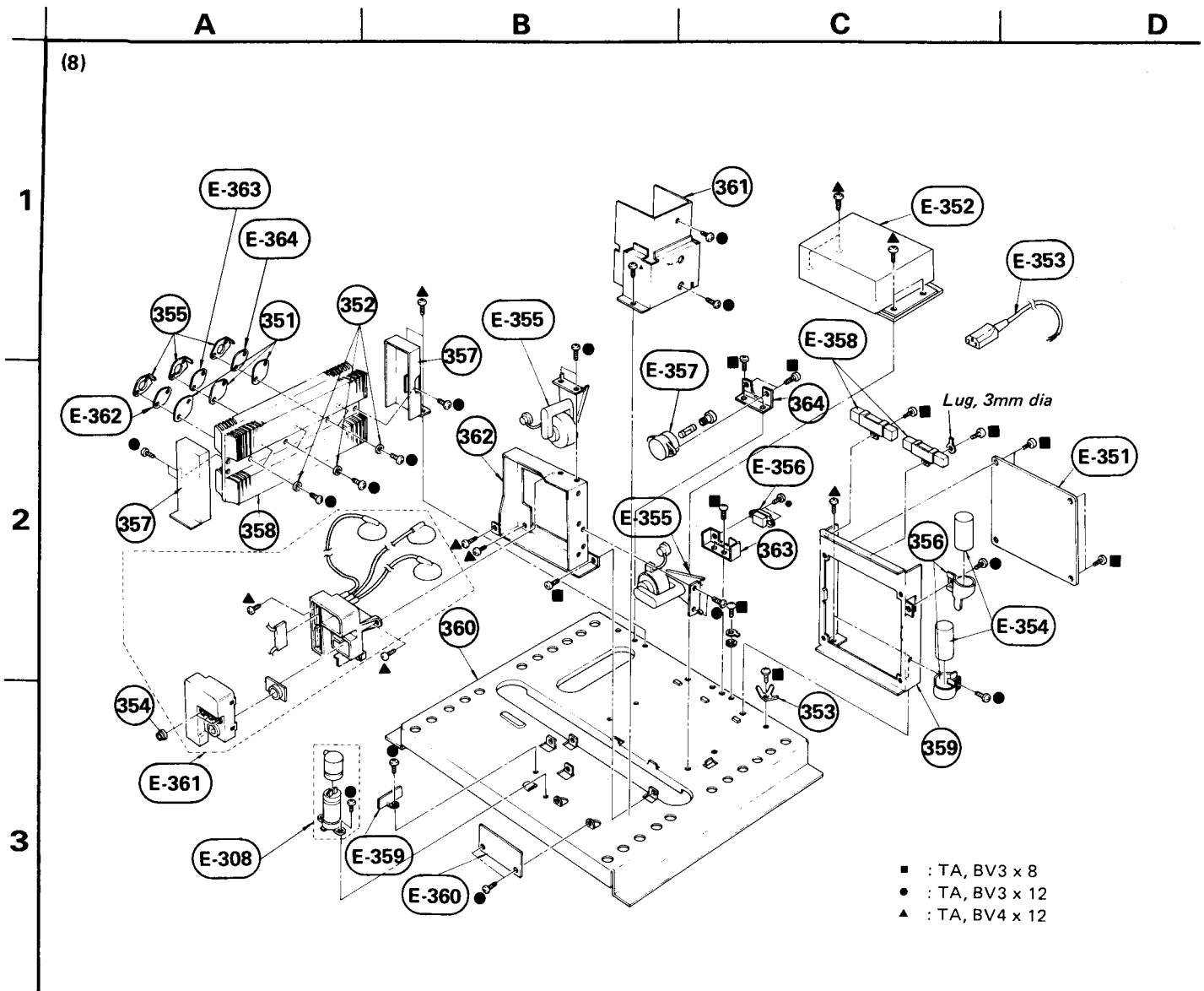
<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
201	A-1450-042-A	Arm (R) Ass'y		212	4-318-348-00	Knob, V. HOLD	
202	● X-4332-221-0	Roller Ass'y		213	● 4-332-206-00	Heat Sink (A)	
203	X-4332-228-0	Stopper Ass'y (right)		214	● 4-332-216-00	Insulator, mirror switch	
204	● X-4332-234-0	Chassis Ass'y (right), side		215	4-332-277-00	Roller, stopper	
205	2-825-006-00	Spacer, mica		216	4-332-278-00	Holder, switch; micro	
206	3-701-609-00	Bushing (B)		217	● 4-333-229-00	Bracket (A), guide	
207	● 3-701-832-00	Hinge, circuit board		218	● 4-333-230-00	Bracket (B), guide	
208	● 3-703-141-00	Holder, PCB		219	4-333-234-00	Spring (B), coil	
209	4-008-449-00	Spacer, bracket		220	4-333-243-00	Actuator, VAM35	
210	● 4-024-014-00	Guide, PC board		221	4-333-251-00	Sheet, side (right)	
211	● 4-309-762-00	Retainer (MD-17), transistor		222	● 4-333-920-00	Bracket, BC	



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
251	X-4332-209-2	Base Ass'y		257	● 4-332-212-00	Ring, lens stopper	
252	● X-4332-233-0	Chassis Ass'y (left), side		258	4-332-237-00	Lens (734)	
253	● X-4332-234-0	Chassis Ass'y (right), side		259	4-332-238-00	Mirror	
254	● X-4332-235-3	Bracket Ass'y, lens		260	● 4-332-239-00	Holder, lens	
255	3-703-243-00	Screw, claw		261	4-333-205-00	Stay, rear	
256	● 4-332-211-00	Retainer, DM		262	● 4-333-249-00	Bracket, DM	




<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
301	4-304-749-00	Nut, flange		307	● 4-332-268-00	Bracket (A), CRT	
302	4-312-823-11	Knob, auto		308	● 4-333-226-00	Bracket, hatch switch	
303	4-318-348-00	Knob, V. HOLD		309	4-333-228-00	Cushion, CRT	
304	4-332-209-00	Spring		310	4-333-228-11	Cushion, CRT	
305	● 4-332-253-00	Duct, air		311	● 4-333-933-00	Bracket, DE	
306	● 4-332-267-00	Bracket (B), CRT					




<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
351	3-701-353-00	Spacer, mica		358	● 4-332-254-00	Heat Sink (C)	
352	3-701-609-00	Bushing (B)		359	● 4-332-255-00	Bracket (F)	
353	● 4-303-793-00	Terminal, ground		360	● 4-332-266-00	Chassis, bottom	
354	▲ 4-308-858-00	Cap, lead		361	● 4-332-269-00	Shield, HV	
355	● 4-314-938-01	Retainer (TO-3), transistor		362	● 4-332-270-00	Bracket, HV	
356	● 4-324-107-00	Holder, electrolytic capacitor		363	4-333-903-00	Holder, 3P inlet	
357	● 4-332-234-00	Bracket, heat sink		364	● 4-333-905-00	Holder, socket	

SECTION 7 ELECTRICAL PARTS LIST

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note:

- ⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- ※ : selected to yield optimum performance.

CAPACITORS

- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μF , elect : electrolytic

RESISTORS

- All resistors are in ohms. Common $\frac{1}{4}\text{W}$ carbon resistors are omitted. Refer to the list on the last page for their part numbers.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
k Ω : 1000 Ω , M Ω : 1000k Ω

COILS

- All coils are microinductors unless otherwise noted.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
BA BOARD							
	● A-1130-083-A	BA Board, complete	E-204				
CAPACITORS							
C301	1-121-421-00	220 16V elect		C326	1-102-976-00	180p	
C302	1-121-410-00	47 25V elect		C327	1-102-971-00	82p	
C303	1-121-398-00	10 25V elect		C328	1-108-792-00	0.001 mylar	
C304	1-108-587-00	0.022 mylar		C329	1-121-398-00	10 25V elect	
C305	1-108-421-00	0.01 200V mylar		C330	1-101-361-00	150p	
C306-308	1-108-587-00	0.022 mylar		C331	1-123-351-00	0.47 50V elect	
C309	1-108-804-00	0.01 mylar		C332	1-121-404-00	33 25V elect	
C310	1-102-836-00	470p		C333	1-123-351-00	0.47 50V elect	
C311, 312	1-108-792-00	0.001 mylar		C334	1-123-252-00	1 160V elect	
C313	1-121-404-00	33 25V elect		C335	1-108-587-00	0.022 mylar	
C314	1-102-971-00	82p		DIODES			
C315	1-102-973-00	100p		D301-309	8-719-815-55	1S1555	
C316, 317	1-121-404-00	33 25V elect		⇒D310	8-719-200-02	10E2	
C318	1-121-398-00	10 25V elect		COILS			
C319	1-101-888-00	68p		L301	1-407-191-XX	470 μH	
C320, 321	1-121-391-00	1 50V elect		L302	1-407-167-XX	68 μH	
C322	1-108-381-00	0.022 100V mylar		TRANSISTORS			
C323	1-108-369-00	0.0022 100V mylar		Q301	8-724-375-01	2SC403C	
C324	1-101-361-00	150p		⇒Q302-307	8-729-663-47	2SC1364	
C325	1-121-398-00	10 25V elect		⇒Q308	8-729-612-77	2SA1027R	
				⇒Q309-315	8-729-663-47	2SC1364	
				⇒Q316	8-729-612-77	2SA1027R	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
⇒Q317	8-729-663-47	2SC1364		C3124	1-123-316-00	10 16V elect	
⇒Q318	8-729-612-77	2SA1027R		C3125-)	1-102-888-00	150p	
⇒Q319-325	8-729-663-47	2SC1364		C3127)	1-101-004-00	0.01	
⇒Q326	8-729-612-77	2SA1027R		C3128,3129	1-123-351-00	0.47 50V elect	
⇒Q327	8-729-663-47	2SC1364		C3130	1-101-004-00	0.01	
⇒Q328	8-729-612-77	2SA1027R		C3131	1-123-316-00	10 16V elect	
RESISTORS				C3132	1-123-355-00	4.7 50V elect	
R307	1-244-875-00	1.2k ½W carbon		C3133	1-101-004-00	0.01	
R346	1-244-869-00	680 ½W carbon		C3134	1-102-820-00	330p	
R386	1-211-490-00	4.7 ¼W carbon (nonflammable)		C3135,3136	1-101-004-00	0.01	
				C3137,3138	1-101-006-00	0.047	
				C3139	1-101-004-00	0.01	
				C3140-)	1-102-850-00	56p	
				C3142)	1-101-004-00	0.01	
				C3143	1-101-004-00	0.01	
				C3144	1-123-317-00	22 16V elect	
				C3145	1-123-355-00	4.7 50V elect	
				C3146	1-123-316-00	10 16V elect	
				C3147	1-123-352-00	1 50V elect	
				C3148	1-123-355-00	4.7 50V elect	
				C3149	1-123-316-00	10 16V elect	
				C3150	1-101-006-00	0.047	
				C3151	1-102-888-00	150p	
				C3152-)	1-101-004-00	0.01	
				C3154)	1-102-973-00	100p	
				C3155	1-101-004-00	0.01	
				C3156	1-123-352-00	1 50V elect	
				C3157,3158	1-102-959-00	22p	
				C3159,3160	1-101-884-00	56p	
				C3161	1-108-365-00	0.001 100V mylar	
				C3162	1-123-316-00	10 16V elect	
				C3163	1-108-365-00	0.001 100V mylar	
				C3164,3165	1-101-004-00	0.01	
				C3166	1-108-365-00	0.001 100V mylar	
				C3167	1-101-004-00	0.01	
				C3168	1-123-316-00	10 16V elect	
				C3169	1-101-884-00	56p	
				C3170	1-102-959-00	22p	
				C3171	1-123-351-00	0.47 50V elect	

BB BOARD

● A-1135-078-A BB Board, complete E-202

CAPACITORS

C3101	1-102-676-00	68p	
C3102	1-101-004-00	0.01	
C3103,3104	1-102-662-00	7p	
C3105	1-102-858-00	10p	
C3106	1-102-882-00	4p	
C3107	1-101-004-00	0.01	
C3108	1-123-351-00	0.47 50V elect	
C3109	1-101-880-00	47p	
C3110	1-101-004-00	0.01	
C3111	1-123-351-00	0.47 50V elect	
C3112	1-102-965-00	390p	
C3113	1-101-004-00	0.01	
C3114	1-102-516-00	27p	
C3115,3116	1-102-529-00	100p	
C3117	1-123-318-00	33 16V elect	
C3118	1-102-531-00	150p	
C3119	1-102-516-00	27p	
C3120,3121	1-102-529-00	100p	
C3122	1-102-531-00	150p	
C3123	1-102-973-00	100p	

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Q3126	8-760-413-10	2SC1475		TRANSFORMERS			
Q3127	8-724-375-01	2SC403C		T3101	1-425-784-00	T.O.T	
⇒Q3128	8-729-612-77	2SA1027R		T3102,3103	1-409-193-00	3.58MHz Trap	
Q3129	8-760-413-10	2SC1475		T3104	1-404-076-00	R-Y Discr	
Q3130	8-724-375-01	2SC403C		T3105	1-404-076-21	B-Y Discr	
⇒Q3131	8-729-612-77	2SA1027R		T3106	1-404-075-00	BELL	
Q3132	8-760-413-10	2SC1475		T3107	1-425-928-00	DAT	
Q3133	8-724-375-01	2SC403C		T3108	1-404-075-00	IDT	
⇒Q3134—	8-729-663-47	2SC1364		T3109,3110	1-425-970-00	CWT	
⇒Q3137)				T3111	1-403-843-00	SIFT-3, V-PHASE	
RESISTORS				TH3101	1-800-198-XX	Thermister, S-1000	
R3223	1-212-360-00	1	1W metal oxide (nonflammable)	X3101	1-527-274-00	Crystal Oscillator	
R3224	1-206-475-00	33	2W metal oxide (nonflammable)	BC BOARD			
R3233	1-211-929-00	82	1/8W carbon (nonflammable)	● A-1130-094-A	BC Board, complete	E-156	
R3236	1-213-135-00	220	1W metal oxide (nonflammable)	CAPACITORS			
R3246	1-211-929-00	82	1/8W carbon (nonflammable)	C9501	1-102-949-00	12p	
R3247	1-213-135-00	220	1W metal oxide (nonflammable)	C9502—	1-108-381-00	0.022 100V mylar	
R3257	1-246-988-00	56	1/8W carbon (nonflammable)	C9504)			
R3258	1-213-133-00	150	1W metal oxide (nonflammable)	C9505	1-123-316-00	10 16V elect	
RV3101	1-224-641-XX	470	adjustable; BIAS	C9506	1-108-381-00	0.022 100V mylar	
RV3102	1-224-643-XX	2.2k	adjustable; R-Y LEVEL	C9507,9508	1-123-352-00	1 50V elect	
RV3103	1-224-643-XX	2.2k	adjustable; SMB	C9509	1-123-316-00	10 16V elect	
RV3104	1-224-642-XX	1k	adjustable; U. PHASE	C9510	1-108-381-00	0.022 100V mylar	
RV3105	1-224-645-XX	10k	adjustable; KILL	C9511	1-123-331-00	33 25V elect	
RV3106	1-224-644-XX	4.7k	adjustable; ACC	DIODES			
RV3107	1-224-641-XX	470	adjustable; BKG	D9501,9502	8-719-815-55	1S1555	
RV3108	1-221-970-XX	500	adjustable; R. DRIVE	COIL			
RV3109	1-221-970-XX	500	adjustable; G. DRIVE	L9501	1-407-240-00	Inductor, variable	
RV3110	1-221-970-XX	500	adjustable; B. DRIVE				

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TRANSISTORS				R712	1-202-583-00	2.7k ½W composition	
Q9501-)	8-729-663-47	2SC1364		R713	1-202-615-00	56k ½W composition	
Q9503				R714	1-247-033-00	100 1/8W carbon (nonflammable)	
Q9504	8-729-612-77	2SA1027R			1-526-607-00	Socket, picture tube	
<div>C BOARD</div>				<div>D BOARD</div>			
A-1330-169-A C Board, complete			E-307	A-1340-270-A D Board, complete			E-201
CAPACITORS				CAPACITORS			
C701	1-123-028-00	2.2 350V	elect	C5501	1-121-733-00	470 25V	elect
C702	1-121-963-00	33 25V	elect	C5502,5503	1-121-999-00	10 160V	elect
C703	1-102-267-00	0.0068 500V		C5504	1-121-245-00	1000 16V	elect
C704	1-102-155-00	330p 2kV		C5505	1-121-733-00	470 25V	elect
C705	1-129-924-00	0.016 1kV	film	C5507	1-121-398-00	10 25V	elect
C706	1-102-155-00	330p 2kV		C5508	1-102-973-00	100p	
COILS				C5509	1-123-116-00	1 160V	elect
L701	1-407-492-00	1mH		C5510	1-108-591-00	0.033	mylar
L702, 703	1-407-364-00	3.3µH		C5511	1-121-391-00	1 50V	elect
NL701	1-519-013-00	Discharge Tube		C5512,5513	1-121-810-00	470 50V	elect
TRANSISTOR				C5514	1-131-236-00	1 25V	tantalum
Q701	8-729-372-31	2SC1723		C5515	1-121-391-00	1 50V	elect
RESISTOR				C5516	1-121-396-00	4.7 50V	elect
R701	1-202-615-00	56k ½W	composition	C5517	1-102-973-00	100p	
R702	1-202-631-00	270k ½W	composition	C5518	1-123-116-00	1 160V	elect
R703	1-244-921-00	100k ½W	carbon	C5519	1-108-591-00	0.033	mylar
R704	1-244-923-00	120k ½W	carbon	C5520	1-121-391-00	1 50V	elect
R706	1-206-753-00	15k 3W	metal oxide (nonflammable)	C5521,5522	1-121-810-00	470 50V	elect
R708	1-202-573-00	1k ½W	composition	C5523	1-131-236-00	1 25V	elect
R709	1-202-629-00	220k ½W	composition	C5524	1-121-391-00	1 50V	elect
R710	1-202-573-00	1k ½W	composition	C5525	1-121-396-00	4.7 50V	elect
R711	1-202-639-00	560k ½W	composition	C5526	1-102-973-00	100p	
				C5527	1-123-116-00	1 160V	elect
				C5528	1-108-591-00	0.033	mylar
				C5529	1-121-391-00	1 50V	elect

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
C5530,5531	1-121-810-00	470 50V elect		TRANSISTORS			
C5532	1-131-236-00	1 25V elect		⇒Q5501,5502	8-729-612-77	1SA1027R	
C5533	1-121-391-00	1 50V elect		Q5503	8-765-170-01	2SC1962	
C5534	1-121-396-00	4.7 50V elect		Q5504	8-729-307-82	2SD478	
C5535	1-121-416-00	100 25V elect		Q5505	8-729-326-82	2SB568	
C5536,5537	1-108-571-00	0.0047 mylar		⇒Q5506	8-729-612-77	2SA1027R	
C5538	1-108-563-00	0.0022 mylar		⇒Q5507,5508	8-729-663-47	2SC1364	
C5539	1-102-973-00	100p		⇒Q5509	8-729-612-77	2SA1027R	
C5540,5541	1-131-207-00	4.7 25V elect		Q5510	8-760-413-10	2SC1475	
C5543,5544	1-121-392-00	3.3 25V elect		⇒Q5511,5512	8-729-612-77	2SA1027R	
C5545	1-108-792-00	0.001 mylar		Q5513	8-765-170-01	2SC1962	
C5546	1-121-416-00	100 25V elect		Q5514	8-729-307-82	2SD478	
C5547	1-108-792-00	0.001 mylar		Q5515	8-729-326-82	2SB568	
C5548	1-108-587-00	0.022 mylar		⇒Q5516	8-729-612-77	2SA1027R	
C5550-)	1-108-425-00	0.022 200V mylar		⇒Q5517,5518	8-729-663-47	2SC1364	
C5552				⇒Q5519	8-729-612-77	2SA1027R	
DIODES				Q5520	8-760-413-10	2SC1475	
D5501-)	8-719-815-55	1S1555		⇒Q5521,5522	8-729-612-77	2SA1027R	
D5505				Q5523	8-765-170-01	2SC1962	
⇒D5506	8-719-931-25	EQB01-25		Q5524	8-729-307-82	2SD478	
⇒D5507	8-719-931-08	EQB01-08		Q5525	8-729-326-82	2SB568	
D5508-)	8-719-815-55	1S1555		⇒Q5526	8-729-612-77	2SA1027R	
D5512				⇒Q5527,5528	8-729-663-47	2SC1364	
⇒D5513	8-719-931-25	EQB01-25		⇒Q5529	8-729-612-77	2SA1027R	
⇒D5514	8-719-931-08	EQB01-08		Q5530	8-760-413-10	2SC1475	
D5515-)	8-719-815-55	1S1555		⇒Q5531,5532	8-729-663-47	2SC1364	
D5519				⇒Q5533	8-729-663-47	2SC1364	
⇒D5520	8-719-931-25	EQB01-25		⇒Q5534-)	8-729-612-77	2SA1027R	
⇒D5521	8-719-931-08	EQB01-08		⇒Q5536			
⇒D5522	8-719-931-05	EQB01-05		⇒Q5539	8-729-663-47	2SC1364	
⇒D5523	8-719-931-06	EQB01-06		⇒Q5540	8-760-413-10	2SC1475	
D5524	8-719-815-55	1S1555		⇒Q5541	8-729-612-77	2SA1027R	
⇒D5525	8-719-900-93	V09C		Q5542	8-760-413-10	2SC1475	
D5526	8-719-815-55	1S1555		Q5543-)	8-729-663-47	2SC1364	
COIL				Q5545			
L5501	1-407-169-XX	100μH		Q5546	8-760-413-10	2SC1475	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
RESISTORS				R5559	1-214-094-00	27 1% metal oxide	
R5501	1-214-138-00	1.8k 1% metal oxide		R5560,5561	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5502	1-247-031-00	27 1/8W carbon (nonflammable)		R5565,5566	1-214-123-00	430 1% metal oxide	
R5503	1-214-150-00	5.6k 1% metal oxide		R5568	1-214-138-00	1.8k 1% metal oxide	
R5504	1-247-031-00	27 1/8W carbon (nonflammable)		R5569	1-247-031-00	27 1/8W carbon (nonflammable)	
R5505,5506	1-214-118-00	270 1% metal oxide		R5570	1-214-150-00	5.6k 1% metal oxide	
R5507	1-214-158-00	12k 1% metal oxide		R5571	1-247-031-00	27 1/8W carbon (nonflammable)	
R5508	1-214-171-00	43k 1% metal oxide		R5572	1-214-158-00	12k 1% metal oxide	
R5509,5510	1-244-923-00	120k 1/2W carbon		R5573	1-247-031-00	27 1/8W carbon (nonflammable)	
R5512	1-246-994-00	680 1/8W carbon (nonflammable)		R5574	1-214-171-00	43k 1% metal oxide	
R5515,5516	1-206-759-00	27k 3W metal oxide (nonflammable)		R5575,5576	1-244-923-00	120k 1/2W carbon	
R5521	1-213-154-00	8.2k 1W metal oxide (nonflammable)		R5578	1-246-994-00	680 1/8W carbon (nonflammable)	
R5525	1-214-093-00	24 1% metal oxide		R5581,5582	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5526	1-214-094-00	27 1% metal oxide		R5587	1-213-154-00	8.2k 1W metal oxide (nonflammable)	
R5527,5528	1-206-759-00	27k 3W metal oxide (nonflammable)		R5591	1-214-093-00	24 1% metal oxide	
R5532,5533	1-214-123-00	430 1% metal oxide		R5592	1-214-094-00	27 1% metal oxide	
R5535	1-214-138-00	1.8k 1% metal oxide		R5593,5594	1-206-759-00	27k 3W metal oxide (nonflammable)	
R5536	1-247-031-00	27 1/8W carbon (nonflammable)		R5598,5599	1-214-123-00	430 1% metal oxide	
R5537	1-214-150-00	5.6k 1% metal oxide		R5601,5602	1-206-743-00	5.6k 3W metal oxide (nonflammable)	
R5538	1-247-037-00	27 1/8W carbon (nonflammable)		R5603,5604	1-247-031-00	27 1/8W carbon (nonflammable)	
R5539	1-214-158-00	12k 1% metal oxide		R5615	1-214-148-00	4.7k 1% metal oxide	
R5540	1-247-031-00	27 1/8W carbon (nonflammable)		R5616	1-214-154-00	8.2k 1% metal oxide	
R5541	1-214-171-00	43k 1% metal oxide		R5617,5618	1-214-156-00	10k 1% metal oxide	
R5542,5543	1-244-923-00	120k 1/2W carbon		R5621	1-244-923-00	120k 1/2W carbon	
R5545	1-246-994-00	680 1/8W carbon (nonflammable)		R5622	1-244-927-00	180k 1/2W carbon	
R5548,5549	1-206-759-00	27k 3W metal oxide (nonflammable)		R5623	1-244-857-00	220 1/2W carbon	
R5554	1-213-154-00	8.2k 1W metal oxide (nonflammable)		R5624	1-214-158-00	12k metal oxide	
R5558	1-214-093-00	24 1% metal oxide		R5626	1-214-158-00	12k metal oxide	
				R5627	1-214-146-00	3.9k metal oxide	
				R5637	1-244-877-00	1.5k 1/2W carbon	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
R5638	1-206-656-00	470 2W metal oxide (nonflammable)		DIODE			
R5639	1-247-031-00	27 1/8W carbon (nonflammable)		D551	8-719-815-55	1S1555	
R5646	1-206-656-00	470 2W metal oxide (nonflammable)		TRANSISTORS			
R5647	1-247-031-00	27 1/8W carbon (nonflammable)		Q501	8-729-663-47	2SC1364	
RV5501	1-224-641-00	470, adjustable; V. SIZE (R)		⇒Q502	8-729-612-77	2SA1027R	
RV5502	1-224-644-00	4.7k, adjustable; V. CENT (R)		Q503	8-729-307-82	2SD478	
RV5503	1-221-970-XX	500, adjustable; V. SIZE (G)		Q551	8-729-663-47	2SC1364	
RV5504	1-221-970-XX	500, adjustable; V. LIN (G)		⇒Q552, 553	8-729-612-77	2SA1027R	
RV5505	1-224-711-00	1k, adjustable; V. SKEW (G)		⇒Q554	8-765-170-01	2SC1962	
RV5506	1-226-077-00	5k, variable; V. CENT (G)		Q555	8-729-307-82	2SD478	
RV5507	1-221-970-XX	500, adjustable; V. SIZE (B)		Q556	8-729-326-82	2SB568	
RV5508	1-221-970-XX	500, adjustable; V. LIN (B)		Q557	8-729-663-47	2SC1364	
RV5509	1-224-711-00	1k, adjustable; V. SKEW (B)		RESISTORS			
RV5510	1-226-077-00	5k, variable; V. CENT (B)		R509	1-214-172-00	47k film	
				R510	1-214-156-00	10k film	
				R514	1-213-130-00	82 1W metal oxide (nonflammable)	
				R551	1-244-903-00	18k ½W carbon	
				R558	1-214-598-00	56k 1W metal oxide (nonflammable)	
				R560	1-246-994-00	680 1/8W carbon (nonflammable)	
				R561	1-206-753-00	15k 3W metal oxide (nonflammable)	
				R562	1-244-918-00	75k ½W carbon	
				R563	1-244-909-00	33k ½W carbon	
				R564	1-244-893-00	6.8k ½W carbon	
				R565	1-214-084-00	10 film	
				R566	1-246-993-00	470 1/8W carbon (nonflammable)	
				RV501	1-224-646-XX	22k, adjustable; H SUB BOW (G)	
				RV502	1-224-646-XX	22k, adjustable; H SUB SKEW (G)	
				RV551	1-224-018-00	20k, variable; V SKEW (B)	
				RV552	1-224-645-XX	10k, adjustable; V BOW (B)	
				RV553	1-224-018-00	20k, variable; H SKEW (B)	

DE BOARD


● A-1340-327-A DE Board, complete E-309


CAPACITORS

C502-505	1-123-329-00	10 25V elect	
C506	1-108-369-00	0.0022 100V mylar	
C507	1-108-379-00	0.015 100V mylar	
C551	1-123-352-00	1 50V elect	
C552	1-108-383-00	0.033 100V mylar	
C553, 554	1-123-352-00	1 50V elect	
C555	1-102-820-00	330p	
C556, 557	1-123-252-00	1 160V elect	
C558	1-108-427-00	0.033 200V mylar	
C559, 560	1-123-352-00	1 50V elect	
C561	1-121-757-00	33 160V elect	
C562	1-123-336-00	470 25V elect	

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T501	1-421-371-00	Transformer, ferrite		C5329	1-123-116-00	1 160V elect	
				C5330	1-130-121-00	0.0045 1.5kV film	
				C5331	1-129-748-00	0.056 400V film	
				C5331	1-129-883-00	0.56 400V polypropylene film	
				C5332	1-108-431-00	0.068 200V mylar	
				C5332	1-108-690-00	0.0068 200V mylar	
				C5333	1-121-736-00	1000 10V elect	
				C5334	1-121-395-00	4.7 25V elect	
				C5335	1-121-246-00	4.7 160V elect	
				C5336	1-108-377-00	0.01 100V mylar	
				C5337,5338	1-121-414-00	100 10V elect	
				C5339-)	1-121-422-00	220 25V elect	
				C5341)	1-106-224-00	0.15 100V mylar	
				C5342-)			
				C5344)			
				C5345	1-121-757-00	33 160V elect	
				C5346,5347	1-130-121-00	0.0045 1.5kV film	
				C5348	1-123-022-00	22 350V elect	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
F5301	 1-532-215-00	Fuse, 0.8AT; 125V		R5315	1-206-656-00	470 2W metal oxide (nonflammable)	
COILS				R5327	1-211-469-00	5.6k 1/8W carbon (nonflammable)	
L5301- L5303	1-407-500-00	4.7mH		R5328,5329	1-214-158-00	12k 1% film	
L5304- L5306	1-459-075-00	3.3mH		R5336	1-244-867-00	560 1/2W carbon	
TRANSISTORS				R5337	1-206-465-00	12 2W metal oxide (nonflammable)	
Q5301	8-729-309-06	2SC1890A		R5340	1-206-465-00	12 2W metal oxide (nonflammable)	
Q5302	8-729-307-82	2SD478		R5341	1-214-084-00	10 1% film	
⇒Q5303	8-729-663-47	2SC1364		R5352	1-211-475-00	10k 1/8W carbon (nonflammable)	
Q5304	8-729-309-06	2SC1890A		R5356	1-247-040-00	1k 1/8W carbon (nonflammable)	
⇒Q5305	8-729-612-77	2SA1027R		R5357	1-206-656-00	470 2W metal oxide (nonflammable)	
⇒Q5306,5307	8-729-663-47	2SC1364		R5369	1-211-469-00	5.6k 1/8W carbon (nonflammable)	
⇒Q5308	8-729-612-77	2SA1027R		R5370,5371	1-214-158-00	12k 1% film	
Q5309	8-760-413-10	2SC1475		R5378	1-244-867-00	560 1/2W carbon	
Q5310	8-729-468-43	2SA684		R5379	1-206-465-00	12 2W metal oxide (nonflammable)	
Q5311	8-729-309-06	2SC1890A		R5382	1-214-084-00	10 1% film	
Q5312	8-729-307-82	2SD478		R5383	1-206-465-00	12 2W metal oxide (nonflammable)	
⇒Q5313	8-729-663-47	2SC1364		R5393	1-211-475-00	10k 1/8W carbon (nonflammable)	
⇒Q5314	8-729-309-06	2SC1890A		R5397	1-247-040-00	1k 1/8W carbon (nonflammable)	
⇒Q5315,5316	8-729-663-47	2SC1364		R5398	1-206-656-00	470 2W metal oxide (nonflammable)	
⇒Q5317	8-729-612-77	2SA1027R		R5409	1-211-469-00	5.6k 1/8W carbon (nonflammable)	
Q5318	8-760-413-10	2SC1475		R5410,5411	1-214-158-00	12k 1% film	
Q5319	8-729-468-43	2SA684		R5418	1-244-867-00	560 1/2W carbon	
Q5320	8-729-309-06	2SC1890A		R5419	1-206-465-00	12 2W metal oxide (nonflammable)	
⇒Q5321	8-729-663-47	2SC1364		R5422	1-206-465-00	12 2W metal oxide (nonflammable)	
Q5322	8-729-307-82	2SD478					
Q5323	8-729-309-06	2SC1890A					
⇒Q5324,5325	8-729-663-47	2SC1364					
⇒Q5326	8-729-612-77	2SA1027R					
Q5327	8-760-413-10	2SC1475					
Q5328	8-729-468-43	2SA684					
RESISTORS							
R5310	1-211-475-00	10k 1/8W carbon (nonflammable)					
R5314	1-247-040-00	1k 1/8W carbon (nonflammable)					

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
R5423	1-214-084-00	10 1% film		T5308	1-439-097-00	HOT-6	
R5426	1-206-463-00	10 2W metal oxide (nonflammable)		T5309	1-439-230-00	LOT-3	
R5427	1-206-703-00	120 3W metal oxide (nonflammable)		T5310	1-439-229-00	LOT-4	
R5429	1-206-531-00	68 3W metal oxide (nonflammable)			1-533-087-00	Holder, fuse	
R5430	1-206-914-00	82 3W metal oxide (nonflammable)		<div>EB BOARD</div>			
R5431	1-206-531-00	68 3W metal oxide (nonflammable)					
R5432	1-212-361-00	1.2 1W metal oxide (nonflammable)		1-601-333-00	EB Board		E-206
R5433	1-211-630-00	470 ½W carbon (nonflammable)		CAPACITORS			
R5434	1-206-703-00	120 3W metal oxide (nonflammable)		C501	1-123-333-00	100 25V elect	
RV5301	1-222-512-00	10k, adjustable; H KEYS (G)		C502-505	1-123-329-00	10 25V elect	
RV5302	1-222-807-XX	20k, adjustable; H SIZE (G)		C506	1-108-369-00	0.0022 100V mylar	
RV5303	1-222-807-XX	20k, adjustable; H SKEW (G)		C507	1-108-379-00	0.0015 100V mylar	
RV5304	1-224-645-XX	10k, adjustable; H BOW (G)		TRANSISTORS			
RV5305	1-226-077-00	5k, variable; H CENT (G)		Q501	8-729-663-47	2SC1364	
RV5306	1-224-646-XX	22k, adjustable; H. SIZE (R)		⇒Q502	8-729-612-77	2SA1027R	
RV5307	1-224-646-XX	22k, adjustable; H. SKEW (R)		Q503	8-729-307-82	2SD478	
RV5308	1-224-644-XX	4.7k, adjustable; H. CENT (R)		RESISTORS			
RV5309	1-222-512-00	10k, adjustable; H. KEYS (B)		R509	1-214-172-00	47k ¼W metal	
RV5310	1-222-807-XX	20k, adjustable; H. SIZE (B)		R510	1-214-156-00	10k ¼W metal	
RV5312	1-224-645-XX	10k, adjustable; H. BOW (B)		R514	1-213-130-00	82 1W metal oxide (nonflammable)	
RV5313	1-226-077-00	5k, variable; H. CENT (B)		RV501	1-224-646-XX	22k, adjustable; H. SUB BOW	
RV5314	1-223-067-00	120, adjustable; H. LIN (B)		RV502	1-224-646-XX	22k, adjustable; H. SUB SKEW	
RV5315	1-223-021-00	1k, adjustable; H. LIN (G)		TRANSFORMER			
TRANSFORMERS				T501	1-421-371-00	Ferrite	
T5301	1-439-137-00	HOT-1		<div>F BOARD</div>			
T5302	1-439-097-00	HOT-4					
T5303	1-439-230-00	LOT-1		1-1240-217-A	F Board, complete		E-351
T5304	1-439-137-00	HOT-2					
T5305	1-439-097-00	HOT-5					
T5306	1-439-230-00	LOT-2					
T5307	1-439-137-00	HOT-3					

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
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CAPACITORS

C6101- C6103)	1-130-087-00	0.1	300V	film
C6104- C6107)	1-102-189-00	0.0047	125V	
C6108,6109	1-123-031-00	2200	35V	elect
C6110	1-121-423-00	220	50V	elect
C6112	1-121-450-00	2.2	50V	elect

C6115- C6117)	1-102-222-00	1000p	250V	
C6118	1-125-183-00	3300	35V	elect
C6119	1-102-222-00	1000p	250V	
C6120	1-108-745-00	0.22	300V	film

DIODES

D6101	8-719-851-51	S5151
D6102	8-719-801-51	S5151R
D6103- D6106)	8-719-911-55	U05G
D6107	8-719-200-02	10E2
D6109	8-719-200-02	10E2

F6101	1-532-325-00	Fuse, 6.3AT
F6102	1-532-078-00	Fuse, 1AT
F6103	1-532-286-00	Fuse, 2.5AT
F6104	1-532-285-00	Fuse, 1.25AT

RESISTORS

R6101	1-202-723-00	2.2M	1/2W	composition
R6102	1-206-765-11	47k	3W	metal oxide (nonflammable)
R6103	1-244-895-00	8.2k	1/2W	carbon
R6104	1-206-495-11	2.2	3W	metal oxide (nonflammable)

RL6101	1-515-265-00	Relay
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TRANSFORMERS

T6101	1-421-372-11	LFT-1
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T6102	1-421-372-11	LFT-2
T6103	1-421-372-11	LFT-3
T6104	1-421-372-11	LFT-4

1-533-087-00 Holder, fuse

GA BOARD

• A-1316-005-A GA Board, complete E-203

CAPACITORS

C601	1-123-005-00	22	250V	elect
C602	1-108-704-00	0.1	200V	mylar
C603	1-121-246-00	4.7	160V	elect
C604	1-121-757-00	33	160V	elect
C605	1-102-050-00	0.01	500V	
C606	1-121-411-00	47	50V	elect
C607	1-108-849-00	0.1		mylar
C608	1-121-738-00	10	50V	elect
C609	1-121-417-00	100	50V	elect

DIODES

⇒D601	8-719-200-02	10E2
⇒D602	8-719-931-08	EQB01-08
⇒D603	8-719-931-06	EQB01-06
⇒D604	8-719-900-93	V09C

F601	1-532-279-00	Fuse, 0.5AT
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COIL

L601	1-407-346-00	200μH
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TRANSISTORS

⇒Q601	8-765-132-00	2SC867A
⇒Q602	8-765-170-01	2SC1962
Q603	8-760-413-10	2SC1475
⇒Q604	8-729-663-47	2SC1364

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RESISTORS							
R602	1-213-150-00	3.9k 1W metal oxide (nonflammable)		C5108	1-121-395-00	4.7 25V elect	
R603	1-244-895-00	8.2k 1/2W carbon		C5109	1-108-638-00	0.1 100V mylar	
R604	1-213-125-00	33 1W metal oxide (nonflammable)		C5110	1-102-973-00	100p	
R605	1-211-451-00	1k 1/8W carbon (nonflammable)		C5111,5112	1-108-911-00	0.0022 100V mylar	
R606	1-244-893-00	6.8k 1/2W carbon		C5113	1-102-973-00	100p	
R609	1-206-757-00	22k 3W metal oxide (nonflammable)		C5114	1-121-396-00	4.7 50V elect	
R610	1-211-427-00	100 1/8W carbon (nonflammable)		C5115	1-121-404-00	33 25V elect	
R611, 612	1-244-921-00	100k 1/2W carbon		C5116	1-108-704-00	0.1 200V mylar	
R613	1-244-921-00	100k 1/2W carbon		C5117	1-121-757-00	33 160V elect	
R614, 615	1-244-921-00	100k 1/2W carbon		C5118	1-108-385-00	0.047 100V mylar	
R616, 617	1-206-498-00	33 3W metal oxide (nonflammable)		C5119	1-102-963-00	33p	
R618	1-211-451-00	1k 1/8W carbon (nonflammable)		C5120	1-102-244-00	220p 500V	
R622	1-244-877-00	1.5k 1/2W carbon		C5121	1-108-385-00	0.047 100V	
R623	1-211-427-00	100 1/8W carbon (nonflammable)		C5122	1-102-963-00	33p	
RV601	1-224-641-XX	470, adjustable; 18V ADJ		C5123	1-102-030-00	330p 500V	
	1-533-087-00	Holder, fuse		C6201,6202	1-121-757-00	33 160V elect	
				C6203	1-108-427-00	0.033 200V mylar	
				C6204	1-108-546-00	1.5 400V mylar	
				C6205	1-108-907-00	2.2 200V mylar	
				C6206	1-108-646-00	0.47 100V mylar	
				C6207	1-108-833-00	0.0047 mylar	
				C6208	1-121-404-00	33 25V elect	
				C6209	1-108-845-00	0.047 mylar	
				C6210	1-121-404-00	33 25V elect	
				C6211	1-121-450-00	2.2 50V elect	
				C6212	1-121-416-00	100 25V elect	
				C6213	1-121-421-00	220 16V elect	
				C6214	1-121-450-00	2.2 50V elect	
				C6215	1-121-391-00	1 50V elect	
				C6216,6217	1-121-738-00	10 50V elect	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
⇒D6207	8-719-931-10	EQB01-10		R5127	1-206-670-00	1.8k 2W metal oxide (nonflammable)	
⇒D6208,6209	8-719-900-93	V09C		R5128	1-217-003-00	0.47 3W wirewound (nonflammable)	
D6210-)	8-719-815-55	1S1555		R5129	1-206-749-00	10k 3W metal oxide (nonflammable)	
D6213)				R5130	1-206-648-00	10k 2W metal oxide (nonflammable)	
D6214	8-719-901-24	Thyristor, CV12E		R6201	1-206-745-00	6.8k 3W metal oxide (nonflammable)	
D6215	8-719-815-55	1S1555					
D6216	8-719-200-02	10E2		R6203	1-211-651-00	3.6k ½W carbon (nonflammable)	
F6201	△1-532-259-00	Fuse, 1.6AT		R6204	1-244-933-00	330k ½W carbon (nonflammable)	
COILS				R6205	1-247-040-00	1k 1/8W carbon (nonflammable)	
L6201,6202	1-407-720-00	100µH		R6206	1-214-180-00	100k 1% metal oxide	
TRANSISTORS				■R6207,6208	△	¼W carbon	
⇒Q5101-)	8-729-663-47	2SC1364		R6209	1-247-040-00	1k 1/8W carbon (nonflammable)	
⇒Q5103)				R6210	1-214-179-00	91k 1% metal oxide	
Q5104,5105	8-729-372-31	2SC1723		■R6211,6212	△	¼W carbon	
Q6201	8-729-307-82	2SD478		R6216	1-244-893-00	6.8k ½W carbon	
Q6202	8-729-309-06	2SC1890A		R6220	1-213-163-00	47k 1W metal oxide (nonflammable)	
Q6203	8-729-307-82	2SD478					
⇒Q6204-)	8-729-663-47	2SC1364		R6222	1-213-161-00	33k 1W metal oxide (nonflammable)	
⇒Q6206)				R6232	1-211-930-00	33 1/8W carbon (nonflammable)	
⇒Q6207	8-729-612-77	2SA1027R		R6235	1-206-725-00	1k 3W metal oxide (nonflammable)	
⇒Q6208	8-729-663-47	2SC1364		R6237	1-214-163-00	20k 1% metal oxide	
Q6209	8-729-309-06	2SC1890A		R6241	1-247-033-00	100 1/8W carbon (nonflammable)	
⇒Q6210	8-729-612-77	2SA1027R					
⇒Q6211,6212	8-729-663-47	2SC1364		RV5101	1-224-646-XX	22k, adjustable; H HOLD	
Q6213	8-760-413-10	2SC1475		TRANSFORMERS			
RESISTORS				TS101	1-437-076-00	HDT-1	
R5108	1-206-707-00	180 3W metal oxide (nonflammable)		TS102	1-437-076-00	HDT	
R5111	1-213-150-00	3.9k 1W metal oxide (nonflammable)					
R5120	1-206-717-00	470 3W metal oxide (nonflammable)					
R5123	1-206-678-00	3.9k 2W metal oxide (nonflammable)					
R5124	1-217-005-00	0.68 3W wirewound (nonflammable)					

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GC BOARD				HA BOARD			
	♣ A-1311-043-A	GC Board, complete	E-152		♣ 1-600-127-00	HA Board	E-106
CAPACITORS				S9101A-C 1-552-017-21 Switch, 3-key; PAL, SECAM, NTSC4.43			
C801	1-108-546-00	1.5 400V mylar		HC BOARD			
C802-805	♣ 1-129-924-00	0.016 1.5kV film			♣ 1-600-140-00	HC Board	E-107
C806, 807	1-108-546-00	1.5 400V mylar		COIL			
C808	1-108-704-00	0.1 200V mylar		L9201	1-407-161-XX	22μH	
DIODES				RESISTORS			
D801, 802	8-719-302-22	SB-2B		RV9201	1-224-015-00	1k, variable; PICTURE	
L801	1-421-350-00	Coil, ferrite chork; H.C.A		RV9202	1-224-017-00	5k, variable; BRIGHT	
NL801	1-519-013-13	Discharge Tube		RV9203	1-224-017-00	5k, variable; COLOR	
RESISTORS				RV9204	1-224-016-00	3k-U, variable; HUE	
R801, 802	1-206-487-00	1 3W metal oxide (nonflammable)		HD BOARD			
R812, 813	1-217-001-00	0.33 3W wirewound (nonflammable)			♣ 1-600-141-00	HD Board	E-108
HB BOARD				CAPACITORS			
	♣ 1-587-481-00	HB Board	E-360	C9301	1-121-398-00	10 25V elect	
CAPACITOR				C9302	1-121-391-00	1 50V elect	
C5451	1-129-942-00	0.0027 1.5kV		C9303	1-121-404-00	33 25V elect	
RESISTORS				C9304	1-108-366-00	0.0012 100V mylar	
R5451-)	1-202-723-00	2.2M ½W composition		C9306	1-108-381-00	0.022 100V mylar	
R5453)				C9307	1-121-416-00	100 25V elect	
R5454	1-202-621-00	100k ½W composition		RESISTORS			
RV5451	1-226-114-00	2.2M, adjustable; SCRN-B		RV9301	1-224-144-00	50-D, variable; VOLUME	
RV5452	1-226-114-00	2.2M, adjustable; SCRN-G		RV9302	1-224-144-00	50-D, variable; TONE	
RV5453	1-226-114-00	2.2M, adjustable; SCRN-R					

Note: The components identified by shading and mark ⚡ are critical for safety. Replace only with part number specified.

- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
<div>HE BOARD</div>							
	1-600-142-00	HE Board	E-109	C417	1-121-480-00	22 25V elect	
				C418	1-121-651-00	10 16V elect	
		DIODE		C420	1-121-480-00	22 25V elect	
				C421	1-102-836-00	470p	
				C422	1-121-398-00	10 25V elect	
D9401	8-719-301-03	SEL103R		C423	1-121-391-00	1 50V elect	
				C424	1-121-651-00	10 16V elect	
<div>Z BOARD</div>							
	1-600-143-00	Z Board	E-110	C425	1-121-391-00	1 50V elect	
		CAPACITORS		C426	1-102-121-00	0.0022	
				C427	1-121-651-00	10 16V elect	
				C428	1-102-121-00	0.0022	
				C430	1-121-421-00	220 16V elect	
C51, 52	1-121-392-00	3.3 25V elect		C431	1-108-638-00	0.1 100V mylar	
C53	1-121-352-00	47 10V elect		C432	1-121-361-00	470 35V elect	
		TRANSISTOR		C433	1-121-403-00	33 16V elect	
				C434	1-108-365-00	0.001 100V mylar	
				C435	1-102-976-00	180p	
Q51	8-729-665-47	2SC1362		C436	1-121-421-00	220 16V elect	
				C437	1-102-953-00	18p	
				C438	1-121-415-00	100 16V elect	
				C439	1-121-733-00	470 25V elect	
<div>Q BOARD</div>							
	A-1270-064-A	Q Board, complete	E-111			DIODES	
		CAPACITORS		D401	8-719-815-55	1S1555	
				⇒D402	8-719-815-85	1S1585	
				D403, 404	8-719-122-00	VD1220	
C401	1-121-651-00	10 16V elect		F401	1-532-284-00	Fuse, 630mA 250V	
C404	1-102-947-00	10p				IC	
C405	1-102-978-00	220p					
C406	1-121-651-00	10 16V elect					
C407	1-121-395-00	4.7 25V elect					
C408	1-121-651-00	10 16V elect		IC401	8-759-600-95	CX095C	
C409	1-102-947-00	10p				TRANSISTORS	
C410	1-102-978-00	220p					
C411	1-121-651-00	10 16V elect		⇒Q401-404	8-729-663-47	2SC1364	
C412	1-121-395-00	4.7 25V elect		Q405	8-729-300-62	2SD666A	
				⇒Q406-410	8-729-663-47	2SC1364	
C413	1-121-657-00	1000 25V elect		⇒Q411	8-729-612-77	2SC1027R	
C414	1-121-422-00	220 25V elect		Q412	8-725-412-00	2SC1124	
C415	1-121-651-00	10 16V elect					

- Items marked "B" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
Q413	8-729-316-12	2SC1061	
Q414	8-729-317-12	2SA671	
RESISTORS			
R423	1-213-138-00	390 1W metal oxide (nonflammable)	
R451	1-244-859-00	270 ½W carbon	
R462	1-213-133-00	150 1W metal oxide (nonflammable)	
R463	1-213-131-00	100 1W metal oxide (nonflammable)	
R465	1-212-367-00	3.9 1W metal oxide (nonflammable)	
R467, 468	1-212-356-00	0.47 1W metal oxide (nonflammable)	
R471	1-206-447-00	2.2 2W metal oxide (nonflammable)	

1-533-087-00 Holder, fuse


MISCELLANEOUS


C6113,6114	1-125-099-00	560+10x2 200V elect	E-354
CNJ901	1-509-095-00	8P Multi Socket, VTR	E-102
DC851	⚠ 1-453-080-YY	High-voltage block	E-361
F6202	⚠ 1-532-233-31	Fuse, 63mA	
J901, 903	1-509-851-00	BNC Connector, VIDEO IN	E-103
J902, 904	1-507-412-XX	Mini Jack, AUDIO IN	E-101
L5502- L5504	⚠ 1-451-166-00	Deflection Yoke, DY	E-301
L5507,5508	⚠ 1-452-203-21	Neck Ass'y, picture tube	E-303
L5509	⚠ 1-452-203-11	Neck Ass'y, picture tube	E-304
M601	⚠ 1-541-141-00	Ventilator, 1B-625F	E-308
Q605, 606	8-729-311-42	2SC1114	E362,363
Q607	8-765-132-00	2SC867A	E-207
Q801	8-729-372-51	2SD725	E-154
Q5329	8-729-372-51	2SD725	E-155
Q6214	8-729-301-62	2SC1116A	E-364
R626, 627	1-205-526-00	220 40W cement (nonflammable)	E-358

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
S601	1-532-548-00	Sensor, fan stop	E-302
S901	1-516-502-11	Switch, pusubutton; LINE-1,2	E-104
S902	1-516-286-00	Switch, pushbutton; HATCH	E-305
S6101	⚠ 1-552-141-00	Switch, pushbutton; POWER ALL OFF	E-105
S6102	1-516-463-XX	Switch, miniature; POWER	
S6103	⚠ 1-526-572-00	Socket, voltage select	E-352
SP901	1-502-753-00	Speaker, 8Ω	E-51
T801, 802	⚠ 1-439-228-00	Transformer Ass'y, flyback; FBT-1, 2	E-355
T6105	⚠ 1-446-316-00	Transformer, power; PT	E-352
V901G	⚠ 8-738-601-05	Picture Tube, SD-102G	E-312
V901B	⚠ 8-738-602-05	Picture Tube, SD-102B	E-310
V901R	⚠ 8-738-603-05	Picture Tube, SD-102R	E-311
CNJ902	⚠ 1-509-547-00	Connector, 3P; AC IN	E-356
	1-507-176-XX	1P Pin Jack	
	1-533-072-13	Holder, fuse	
	⚠ 1-534-849-00	Lead Ass'y, high-voltage	E-306
	1-536-378-XX	L-Type Terminal Strip	E-359

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
X-4332-236-0	Base Ass'y, carton; projector	
X-4500-007-1	Polishing Cloth	
1-551-258-11 	Cord, power	E-353
3-701-360-02	Label, tack	
3-701-630-00	Bag, polyethylene	
4-332-293-00	Bag, protection; screen (KP-5010PS)	
4-332-294-00	Cushion (A), screen (KP-5010PS)	
4-332-295-00	Cushion (B), screen (KP-5010PS)	
4-333-216-00	Sheet, protection; screen	
4-333-266-00	Reinforcement, projector	
4-333-267-00	Bag, protection; projector	
4-333-273-00	Cushion, left upper; projector	
4-333-274-00	Cushion, right upper; projector	
4-333-275-00	Cushion, lower; projector	
4-333-278-00	Bag, protection; screen (KP-7210PS)	
4-333-279-00	Reinforcement, screen (KP-7210PS)	
4-333-280-00	Box, screen pole (KP-7210PS)	
4-333-281-00	Sleeve, screen pole (KP-7210PS)	
4-333-282-00	Holder (A), screen (KP-7210PS)	
4-333-283-00	Holder (B), screen (KP-7210PS)	
4-333-284-00	Holder (C), screen (KP-7210PS)	
4-333-285-00	Cushion (A), screen (KP-7210PS)	
4-333-286-00	Cushion (B), screen (KP-7210PS)	
4-333-906-00	Label, screen (KP-7210PS)	
4-333-907-00	Label, screen (KP-5010PS)	
4-333-914-00	Carton, screen (KP-5010PS)	
4-333-915-00	Carton, projector (KP-5010PS)	
4-333-916-00	Carton, screen (KP-7210PS)	
4-333-917-00	Carton, projector (KP-7210PS)	
4-333-918-00	Sheet, protection; pole (KP-5010PS)	
4-333-921-00	Reinforcement, screen (KP-5010PS)	
4-333-925-00	Reinforcement (A), screen (KP-5010PS)	
4-333-927-00	Label, caution	
4-333-928-00	Cover, screen (KP-7210PS)	
4-333-929-00	Cover, screen (KP-5010PS)	
4-495-818-11	Manual, instruction	

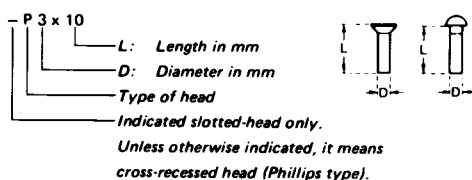
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

1/4 WATT CARBON RESISTORS

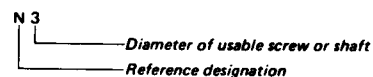
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, P) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, P) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

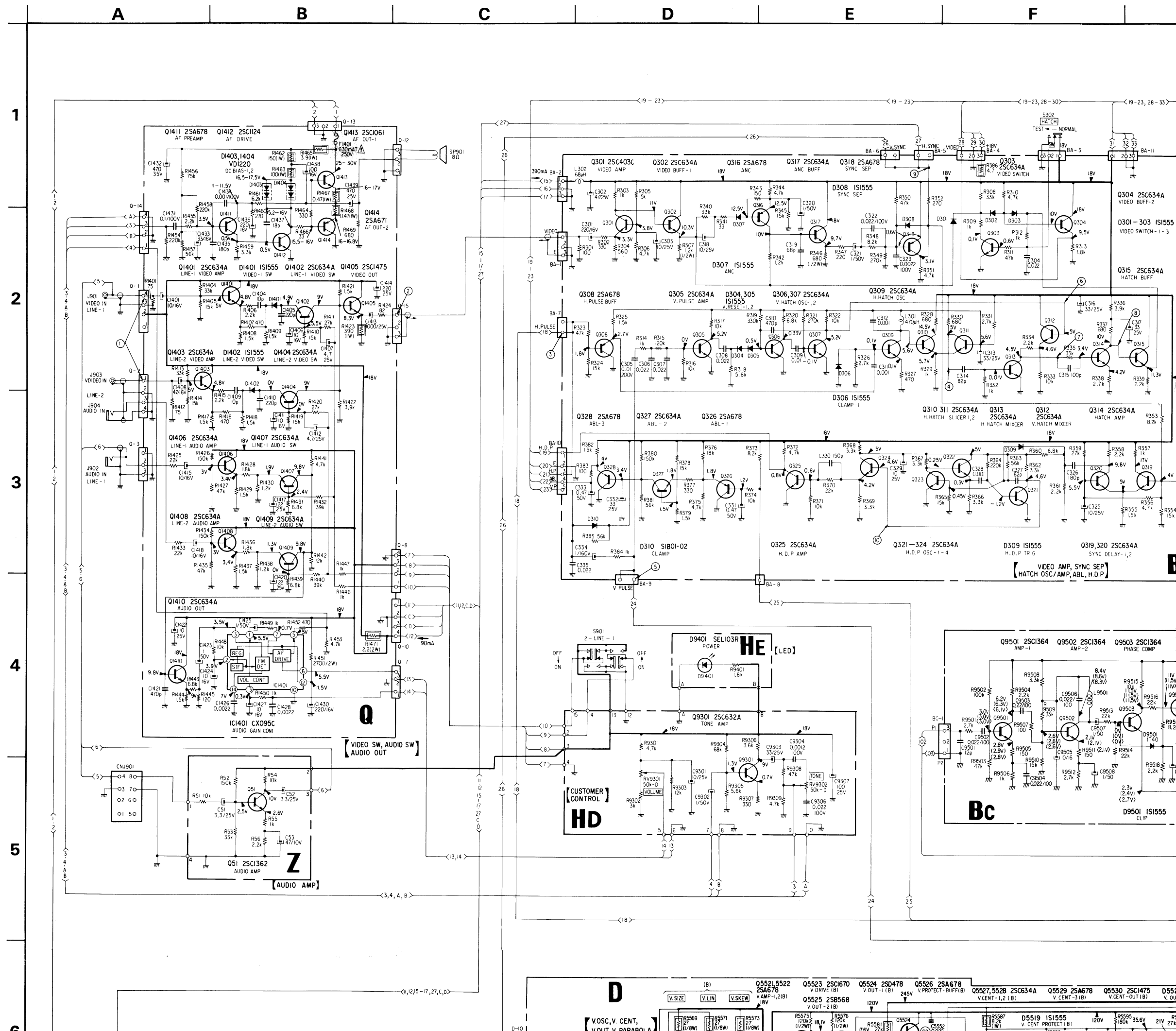
Sony Corporation

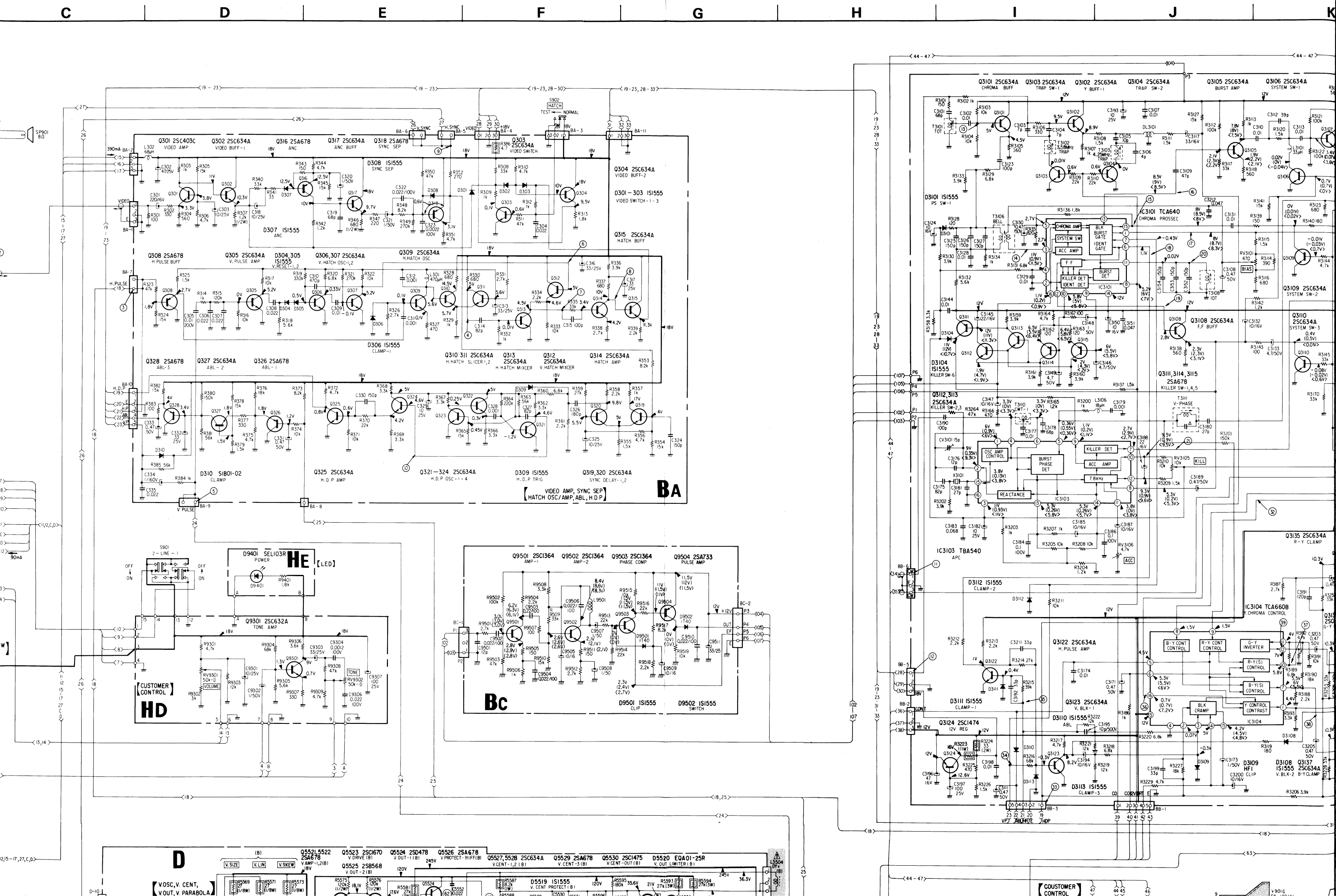
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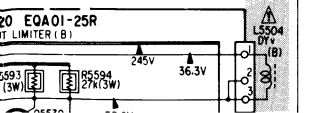
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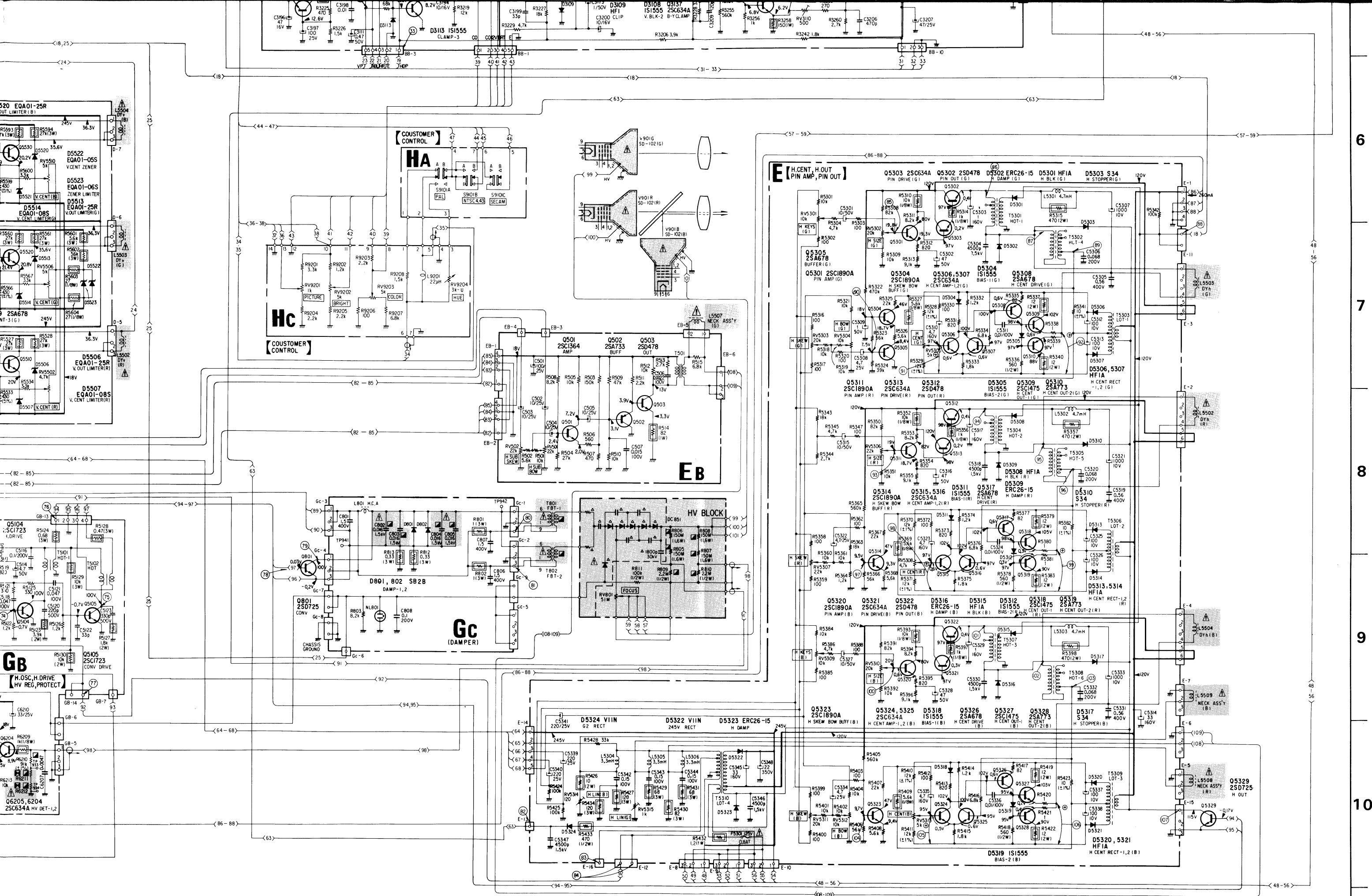
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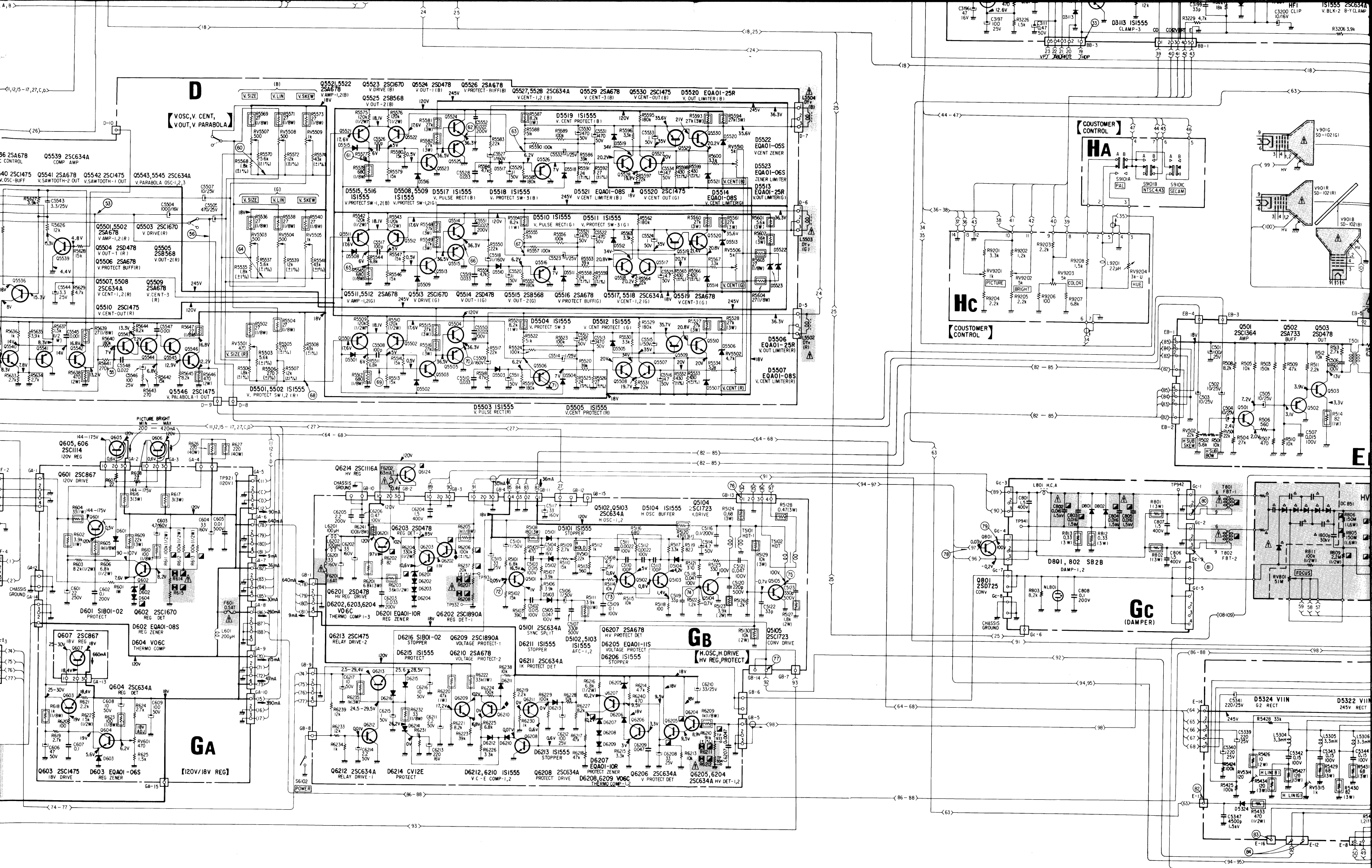
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BUCH ODER IN VON SONY HERAUSGEGEBENEN ERGÄNZUNGEN ANGEZEIGT SIND. AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DIESEM HANDBUCH HINGEWIESEN. BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSTÖRUNGEN BESTEHT.

DIE BESCHLEUNIGUNGSSPANNUNG DARF NICHT ERHÖHT WERDEN, DAMIT KEINE SCHÄDLICHEN RÖNTGENSTRAHLUNGEN ERZEUGT WERDEN. SIE SOLL 27KV (MAX.) BETRAGEN.

GEPRÜFT NACH RÖNTGENVERORDNUNG V.1.3.76: ZULASSUNGSSCHEIN NR.: HH/8/79/RÖ.

Note:

- All capacitors are in μF unless otherwise noted. p : μF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. k : 1000 Ω , M : 1000k Ω
- : nonflammable resistor.
- : internal component.
- : panel designation.
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

When replacing components identified by make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.

(Refer to R6211/R6212 Adjustment, R6207/R6208 Adjustment and R614/R615 Adjustment.)

(On Page 28)

(On Page 28)

(On Page 26)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment
DC851 R807, R808, R810 T801, T802 C802, C803, C804, C805 Q6204, Q6205, D6207 R6207, R6208, R6210, R6211 R6212	R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT
R805, R806, R809 Q6201, Q6202, Q6203, Q6214 D6201, R6206, R6237	R6207/R6208 ADJUSTMENT
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Reference numbers of the Q board differ from those indicated on the printed circuit board of the set. Read the reference numbers of the Q board by adding 1000 to those indicated.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- : adjustable without removing cabinet.
- : adjustment for repair.
- Readings are taken with a color-bar video signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : When this portion is touched with the probe of a VOM, the set will be turned off.
- Voltages in Q board are taken with the LINE switch set to 1.
- Voltages in BB board are taken with PAL color-bar video signal input.
- () : SECAM
- < > : NTSC 4.43MHz

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